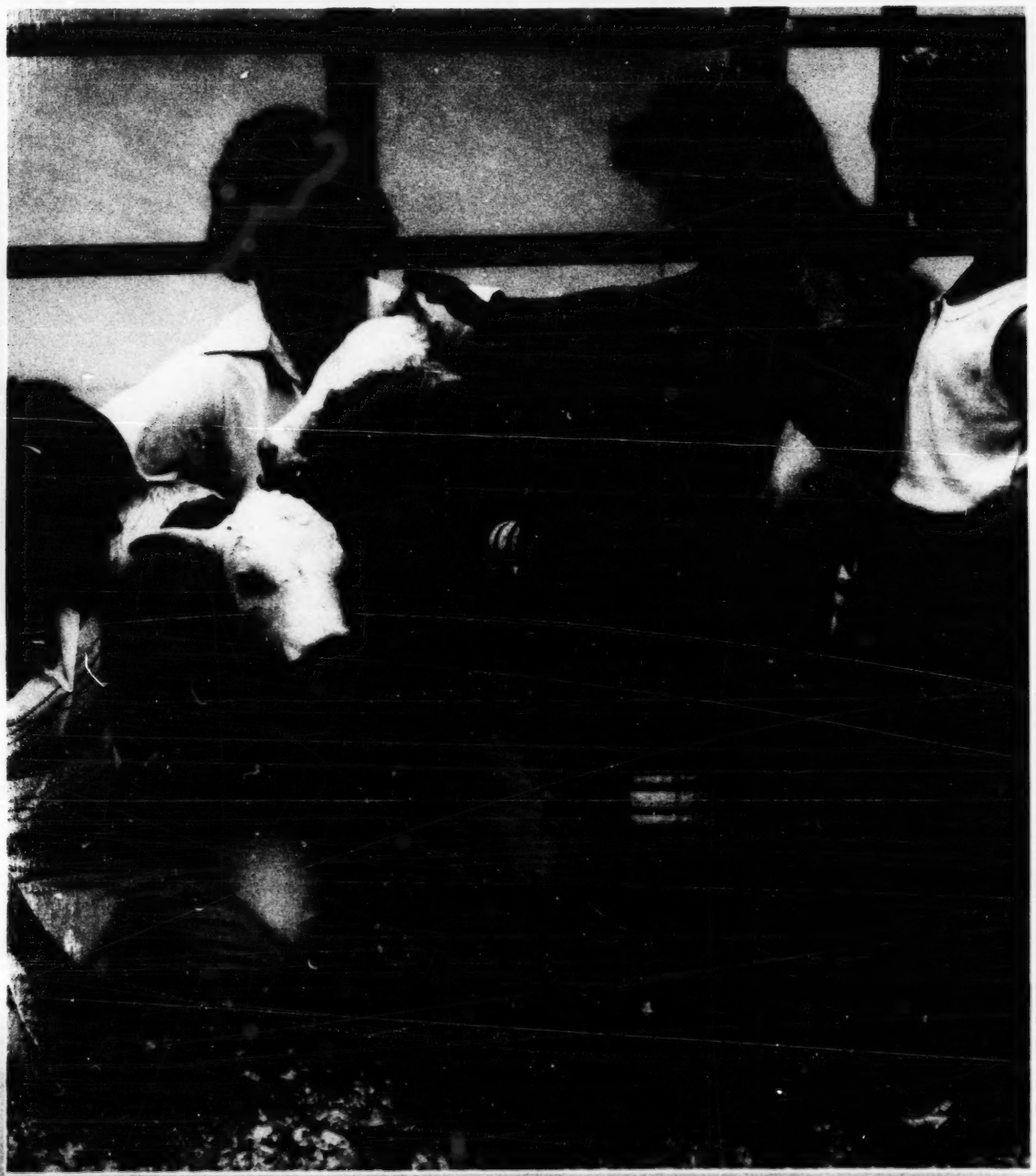
The Ministry of Agriculture and Food
Annual Report 1985/86

Jack Riddell, Minister



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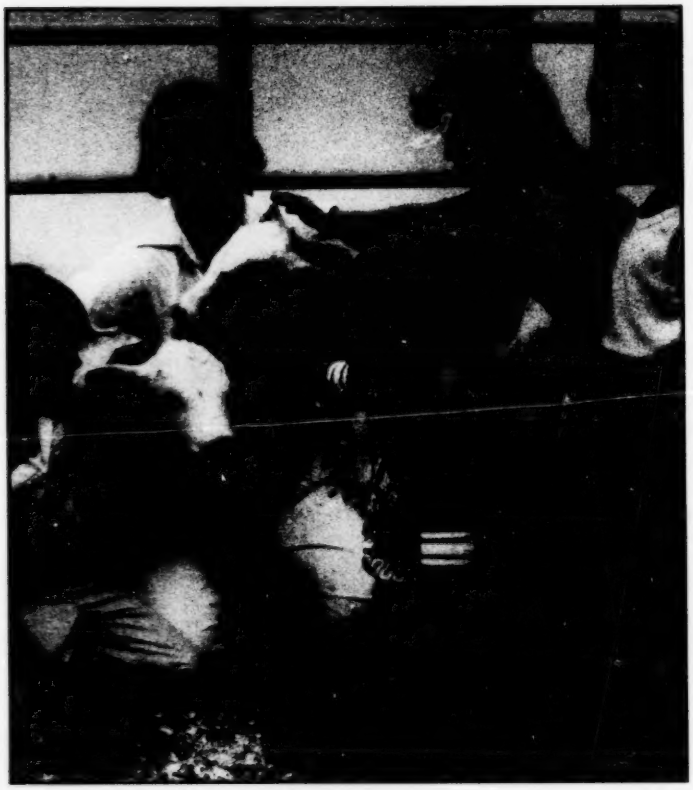

Cover:
A friendly encounter at THE FARM, the ministry's exhibit at the FOOD exhibition, staged March-November 1986, at the Ontario Science Centre.
— Ken Barton, photographer.

This Annual Report is also available in French.

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The Minister's Letter of Transmittal

The Honourable Lincoln Alexander, P.C., Q.C., C.St.J., B.A.
Lieutenant-Governor of the Province of Ontario

May It Please Your Honour:

For the information of Your Honour and the Legislative Assembly, I have the privilege of presenting the Annual Report of the Ministry of Agriculture and Food for the fiscal year ending March 31, 1986.

When I took office early in the fiscal year, I held a strong conviction that agriculture was deserving of greater recognition and a higher level of funding.

Armed with a 23 per cent increase in the agricultural budget over 1984-85, we had the opportunity to signal a new beginning for agriculture and food in the province. In the short, intervening months that followed, I feel we made a good start.

A major initiative and triumph for us was signing the long-delayed national tripartite stabilization program with the federal government. I was able to keep an early promise to Ontario's red meat producers by providing $31 million in retroactive payouts for beef, sheep and hogs under the program.

We have also been gratified by the response to our new financial assistance programs designed to address the social and economic needs of struggling farmers. I refer to the popular Ontario Family Farm Interest Rate Reduction (OFFIRR) program and the Farmers in Transition (FIT) program.

In his summary to follow, the deputy minister will highlight these and other program initiatives which were introduced this fiscal year.

I feel we have made good progress in our first year. Our greatest challenge will be to maintain hard-won gains while continuing to work on areas where improvements are needed.

Respectfully submitted,

Jack Riddell
Minister of Agriculture and Food.

The Deputy Minister's Message

The Honourable Jack Riddell
Minister of Agriculture and Food

Mr. Minister:

In a year when the industry of agriculture suffered many difficult economic adjustments, ministry staff expanded their service to the industry through effective programs, increased extension activities and improved organization.

Several new initiatives were undertaken to address both specific commodity and industry-wide concerns. In addition, the ministry acted on many fronts to enhance work being done in the field, particularly in areas such as soil conservation and environmental protection.

The signing of the first national tripartite stabilization program by the federal and provincial governments was of historic significance. It is a much-needed income assurance plan in these times of low commodity prices and worthy of equal support by the two levels of government for participating producers of slaughter cattle, feeder calves, hogs and lambs.

Long-term debt problems continued this year due to the lack of recovery in farm prices. This put added financial pressure on most farming operations. Two new ministry assistance programs were created to ease this financial plight.

The Ontario Family Farm Interest Rate Reduction program provided was designed to reduce the interest rate on eligible farm debt. And the Farmers in Transition program will help those farmers struggling to stay on the farm as well as those re-establishing themselves in other occupations.

The ministry was able to move in a number of other areas that will benefit the industry on a longer-term basis. The Crop Introduction and Expansion Program is a five-year, $2.5-million example that will transfer research findings into new commercial crops and production techniques.

Ontario signed a memorandum of understanding with the federal government to work together on agricultural programs. A first initiative was a market-oriented study of the Ontario fresh fruit and vegetable industry. Another "first" was an agreement between the ministry and 12 conservation authorities located in the most erosion-prone provincial watersheds. Working with our recently-appointed soil conservation advisers, the authorities will bring their expertise to the joint task of encouraging farmers to adopt tillage and cropping practices that reduce erosion and agricultural run-off into major water supplies.

During the year, a draft policy statement on foodland preservation was released for public comment. When this policy is fully approved, it will replace the Food Land Guidelines as the province's policy for the protection of Ontario's agricultural land base.

Increased activities in extension and education are highlighted in the report this year. Farm business management seminars were among the most popular for farmers while courses on food, nutrition, skills and leadership development attracted large numbers of the general public.

The Master Gardener program is an interesting example of a new educational service, launched in three Ontario locations, to train volunteers to handle consumer inquiries on gardening. It has successfully expanded to seven major centres.

Consumers have also found themselves well served by the Consumer Information Centre, up and running officially for over a year. The storefront staff answers a variety of questions on agriculture and food subjects from anywhere in Ontario and handles ministry publications. The centre has very quickly become an integral part of the ministry's efforts to serve effectively.

Marketing is another area which saw increased activity in the ministry. Staff was added to the market development branch for its expanded export program which has already been very successful in selling more of Ontario's agricultural and food products to U.S. markets.

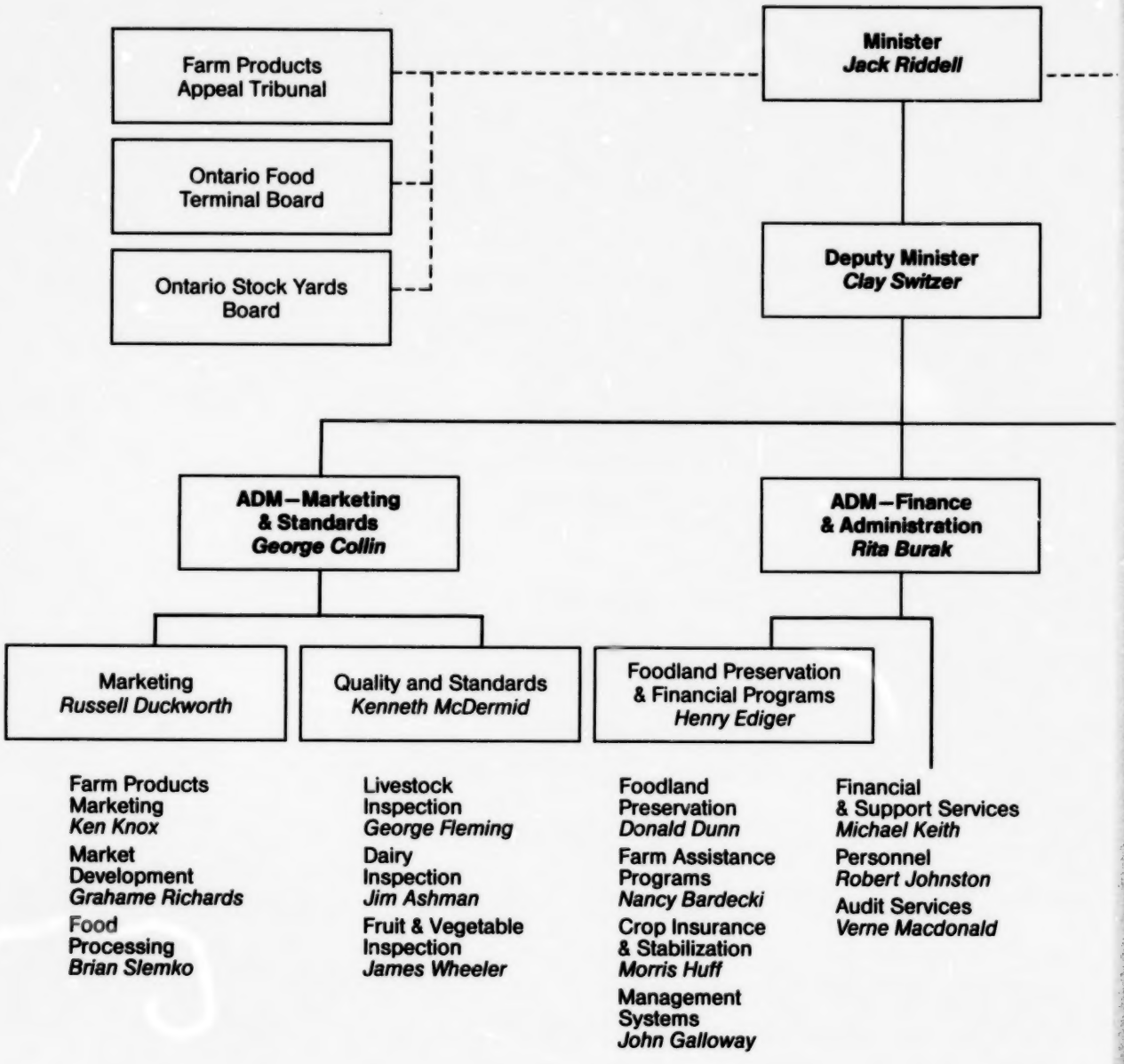
The export area was only one part of the ministry to be re-organized. The formation of the soil and water management branch early in the fiscal year reflects the increased emphasis we place on conservation practices. A management systems branch was also established to consolidate electronic data processing, information technology and office automation for the ministry.

It was an eventful year and I am confident that in the challenges that lie ahead, ministry staff will continue to work with the same diligence and professionalism as in the past.

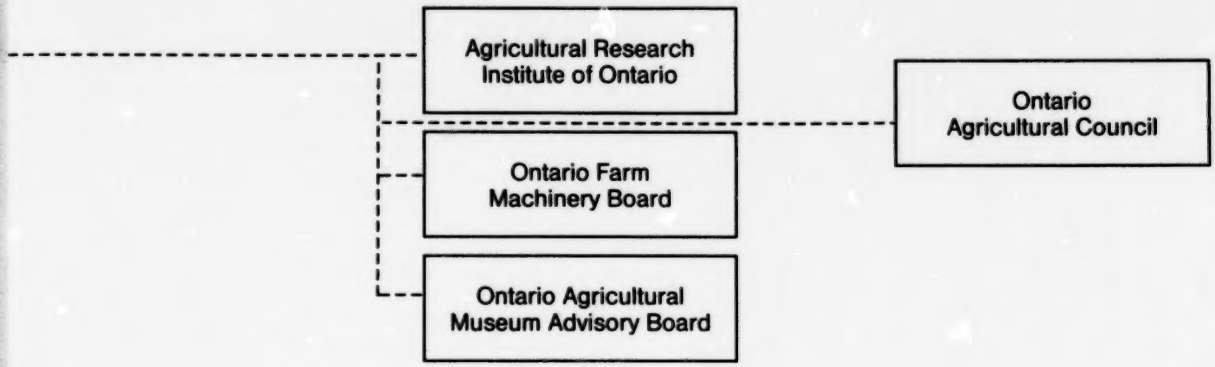
Respectfully,

Clay Switzer
Deputy Minister of Agriculture and Food.

Ministry of Agriculture and Food Organization Chart (as of March 31, 1986)



Legal Services Provided by Attorney-General


Agricultural Research Institute of Ontario
Ontario Agricultural Council
Ontario Farm Machinery Board
Ontario Agricultural Museum Advisory Board

ADM—Technology & Field Services
Clare Rennie

Education & Research
Rob McLaughlin

Advisory & Technical Services
David George

Economics & Policy Coordination
Robert Seguin

Communications
Richard Snell

Rural Organization and Services
Jack Hagarty

Hort. Research Institute of Ontario
Frank Eady

Alfred College
Marcel Paulhus

Centralia College
Douglas Jamieson

Kemptville College
John Curtis

New Liskeard College
William Allen

Ridgetown College
Donald Taylor

Ont. Agricultural Museum
John Wiley

Animal Industry
James Pettit

Plant Industry
Ralph Shaw

Agricultural Lab. Services
Richard Frank

Veterinary Lab. Services
James Henry

Soil & Water Management
Vernon Spencer

FREE TRADE ROLE

During 1985, the **Economics and Policy Coordination Branch** laid the groundwork for the ministry's role in the upcoming "free trade" negotiations with the United States. Meetings with both producers and processors strengthened the ministry's input to these crucial discussions. This work will continue into the next fiscal year.

Ministers and deputy ministers of agriculture met in St. John's, Newfoundland during July for their annual meeting. The branch prepared papers and information for the conference. The ministry was saddened by the untimely death of branch director Bernie McCabe immediately following that conference.

Staff has also been involved with federal and other provincial government staff in developing a national agricultural strategy to be presented to the ministers in August 1986.

Internally, a conference of senior staff discussed and developed a five-year strategic plan for the ministry to stand as a long-run guide.

The branch hosted the third annual Agri-Food: A Look Ahead Conference, October 30 in Toronto. The conference theme was: Sellers in a Buyer's Market. Prominent speakers focussed on issues, opportunities and problems in their respective fields.

Three regular reviews are prepared and published by the policy development unit: *Agricultural Trade Update* highlights international trade issues and statistics; *PDR Notes* analyzes developments in the food processing, distributing and retailing sectors to keep the ministry informed about relevant developments; and *Farm Input Review* examines the fertilizer, fuel, machinery and other farm input sectors.

The branch also publishes the bi-monthly Agricultural Outlook which contains production and price prospects for Ontario commodities. It also has a review of domestic and international agricultural policy developments as they affect the country.

The policy coordination unit maintained its liaison role within the ministry and between the ministry and central agencies. The merging of this function into the branch has provided improved cooperation on policy issues and responses.

Representatives of Ontario red meat producers witnessed the official signing of the tripartite income stabilization program by federal and Ontario agriculture ministers John Wise and Jack Riddell.

The economic information unit staff published the annual agricultural statistics and regular monthly commodity reports (Appendix VII-1 for farm incomes and expenses); the farm market news unit prepared more than 15,000 daily price and commodity news reports (Appendix VII-2); and the financial information unit prepared regular cost of production reports and other farm management-related reports.

FARM IN THE CITY

Today's high tech agriculture came to the city at a special outdoor exhibit organized by **Communications Branch** as part of the FOOD exhibition which opened in March at the Ontario Science Centre in Toronto. Called The Farm, the exhibit featured live animals in a barn setting and other displays to illustrate the science and technology of today's agriculture. A state-of-the-art interactive video display was used to present agriculture in the past, present and future.

Branch staff won 24 awards ranging from honorable mention to top prizes in competitions sponsored by such organizations as the International Association of Business Communicators.

The branch provides a full range of communication services for the ministry through planning, print publications, media relations, speech writing, radio, television, film, exhibits and audio-visual materials.

Leading the way with new technology, the radio service pioneered the distribution of syndicated programs to more than 50 Ontario radio stations each week via Anik D satellite. Fifty-seven radio stations now broadcast the unit's tapes and live radio programs including farm news reports and consumer features; fast news reports on major announcements are telephoned to key rural radio stations.

A sophisticated computer network was installed for use by the print and administrative units in the branch's Toronto office. The award-winning publication, OMAF News, went to press 10 times and was delivered free to every Ontario farm. Brochures, news releases, speeches and factsheets on a wide range of agricultural subjects were produced during the year. About 880 technical publications are now available.

The television service expanded the broadcast area for its popular Town and Country Ontario program, shown weekly in southern and Northern Ontario. Peterborough's CHEX-TV is broadcasting it and CJBN-TV in Kenora now takes Town and Country North. There was also a major expansion of videotape productions for schools.

Three short films promoting agricultural education at Centralia, New Liskeard and Ridgetown Colleges of Agricultural Technology and a short feature on swine housing, care and husbandry were completed by the motion picture unit. The film library handled orders for 3,000 films, videotapes and slide sets, while photographers completed over 300 assignments for the audio-visual unit.

The exhibit service featured agricultural education displays at 13 major fall fairs and exhibitions during the year, with portable exhibits at 506 showings and 268 events, such as shopping mall food promotions.

CAREERS ON DISPLAY

Education & Research Division. The five colleges of agricultural technology participated together in the Careers 2001 exhibition held at the Royal Winter Fair in mid-November. The colleges produced and manned a modular exhibit which featured six agricultural career simulations. Thousands of visitors to Careers 2001 witnessed demonstrations and talked to exhibit attendants about various careers in the agri-food system.

A new library and resource centre at **Ridgetown College** was officially opened in May. The centre provides 4,000 square feet of space for stacks and study carrels, microcomputers, access to off-campus databases, an audio/visual room and a computerized classified job listing.

The college's new computerized weather station allows researchers to access summarized weather data on an hourly, daily, eight hour, average or demand basis. Other programs use weather information to predict harvest dates, pest emergence, growth stages of crops, ventilation needs for livestock and irrigation needs. Over 100 research projects were conducted. Ridgetown graduated 162 students from its diploma in agriculture programs. Since 1953, a total of 2,845 students have received the agricultural diploma.

Continuing education efforts attracted record numbers to the Management of Farm Business Program, offered off-campus in the five counties Ridgetown serves. The annual Farmers' Week in January was also well attended while in February, a seminar series informed area farmers about microcomputers, swine production, low temperature corn drying, beekeeping, solarium and sun room construction and other topics.

The college produced a number of videotapes used for education and extension. Two videos on ventilation systems in livestock housing, a manual and computer program received blue ribbon awards from the American Society of Agricultural Engineering meetings in Michigan.

The most prominent initiative launched by **New Liskeard College** to increase its profile across Northern Ontario was dubbed Crop Check North. It is a five-hectare crop testing and demonstration project in the Rainy River district to provide crop variety and production information to northwest farmers.

The beef cow herd was relocated to a leased property closer to the campus to allow greater emphasis on cow-calf research in Northern Ontario.

The Seed Potato Upgrading and Distribution (SPUD) unit completed its second year, producing some 1000 plantlets. SPUD provides early generation seed stock to the Ontario potato industry.

The swine barn, destroyed by fire in 1984, was put back in operation with a natural ventilation system. Construction of an arboretum was also started in the fall as a joint project of the college and district horticulture society to display trees adapted to the northern climate.

Junior year enrolment was disappointing this year, sparking a recruitment campaign with a part-time co-ordinator; it produced updated promotional literature and a new recruitment film.

A total of 24 students graduated from the four diploma courses. More than 50 people were enrolled in part-time studies on campus.

A major thrust was in continuing education programs off-campus, drawing some 200 participants. Increasing college outreach to the agricultural community was available through the resource centre, re-vamped summer twilight tours and an expanded northeastern agricultural conference that brought farmers from eight districts.

Close to 22,000 people took courses, seminars, listened to speeches or toured **Kemptville College** during the year. Among the major events were the College Royal which attracted 2,500 people and Farmer's Week, 2,800.

The largest event, a progeny showcase, featured eight top commercial bulls and 52 of the best local cows bred through artificial insemination. Twenty-one countries sent representatives. The events were showcased in the spacious, new $1.4 million A.M. Barr Arena, opened officially in May.

In college activities, the student livestock judging team distinguished itself, winning the college section of the Royal Winter Fair, the inter-county and college competition at Kemptville and the dairy section at the University of Guelph.

Two hundred and fifty-two were enrolled in two-year agricultural and food service and technology diploma programs. At convocation, 97 graduated. Forty five finished the federally- assisted re-training programs, which include the farm equipment mechanics, agricultural welder-fitter and farm equipment mechanics apprenticeship courses.

The agricultural class was led by Andreas Gut, 20, of Vankleek Hill. He spoke no English when he came to Canada from Switzerland at age 14, four years before enrolling.

Student employment picked up at the end of the year for both on and off-farm jobs. Lawn-care companies had openings, food service supervisors continued to be in demand and the number of horticultural jobs outstripped the number of graduates.

The college now offers three options in modified agricultural programs: dairy cattle production and management, field crop and livestock production and management and horticultural production and management. The horticultural program has been expanded to reflect the living environment as well as the fruit and vegetable industry. The agricultural engineering technician's course was discontinued.

Ten years of college research of veal calves have been distilled into a book called *Towards Success in Heavy Calf Production*. It covers all aspects of heavy calf rearing, including buying, selling and transporting.

Six hundred farmers, local dignitaries, farmer co-operators and many others watched as **Centralia College's** research demonstration farm was officially opened August 21. The farm's 150 acres has expanded existing field trial research to some 60 studies.

These trials, organized in seven projects, are conducted on white beans, soybeans, canola, corn and rutabagas to evaluate varieties, weed control and cultural practices for use by western Ontario farmers.

Two other research projects were initiated by engineering staff who continued to provide advisory services to farmers on remodelling structures, environmental control, erosion prevention and manure management.

Diplomas were awarded to 110 graduates. Excellent employment opportunities existed, especially in food service management. In September, 161 new students and 128 second year students enrolled for a total of 151 in agricultural business management, 66 in animal health technology and 72 in food service management. All graduates this year received instruction in microcomputer operation.

Fifty-one courses in management of the farm business, four more than last year, were attended by more than 1,000 farmers. Ministry staff in local counties helped with planning and delivery of the federally-funded courses, which had best attendance in farm machinery maintenance and microcomputers. Eight, one-day information meetings attracted another 500 farmers. Human Relations Day, held for the first time, attracted 200 people.

The college was particularly proud of its livestock judging team which placed second at the Inter-College Competition at the Royal Winter Fair.

Nearly 100 agriculture and food-related documents of various kinds have been translated into French during the first year of the Centre de ressources agro-alimentaires (Agri-food Resource Centre) at the **Collège de technologie agricole et alimentaire d'Alfred (Alfred College)**.

This program is being expanded to include audio-visual material and to provide public access to the French language resources of the college library.

Thirty-two students received their diploma in this year's graduation exercises, the third since the college opened. It brings the total number of graduates to 118. Bilingual employment opportunities continued to exceed the supply.

College programs to serve the francophone rural community have included a significant effort in continuing education. It accounted for well over 2,000 teaching days during the year. A recent innovation was for continuing education courses to provide credits toward the diploma in agriculture; this met with tremendous response during the past season among 164 participants from the Franco-Ontarian farm community.

Research and demonstration projects were expanded at Alfred College in drainage and crop variety demonstrations. Mole drainage, used extensively in European heavy clay soils, is being evaluated for eastern Ontario application.

Research is also being conducted into the techniques of natural ventilation in swine barns. The college's six-hectare maple sugar bush has been developed to demonstrate production techniques to local landowners. The current market for maple syrup products has promising potential for development.

GAMBREL OPENS

The Gambrel Bicentennial Barn was officially opened in May by Lieutenant-Governor John Aird to provide the **Ontario Agricultural Museum** with a large multi-purpose activity centre. Later the same month, a replica of a 1928 car dealership and gas station garage was opened by Ford, Imperial Oil and OMAF executives.

Located near Milton, the museum stretches over 32 hectares and contains some 35 buildings and 20,000 artifacts, tools and machines reflecting the evolution of agriculture in Ontario.

Expanded library and research department facilities aided staff to supply information to the public and to carry out important research projects more efficiently.

The educational program, providing tours for students from kindergarten through grade 13, continued to attract large numbers. A conference called Education and Agriculture was organized by ministry staff and held at the museum in September to provide resources for teachers.

Numerous special events throughout the season were highlighted by the Ontario Agricultural Hall of Fame ceremonies, Great Canadian Antique Tractor Field Days, Family Corn Festival and many more.

Mechanical harvesting of crops such as tomatoes and strawberries is a long-term OMAF research success that has revolutionized commercial production and cost competitiveness.

RESEARCH FOR INDUSTRY

Tomatoes with high solids and high paste consistency are in strong demand by the processing industry for ketchup, spaghetti sauce and other products. Quick analysis of solids and consistency is a challenge for food scientists faced with evaluating many new varieties each season.

At the horticultural products laboratory at Vineland, scientists have developed a rapid screening process that can isolate these characteristics very quickly in every variety. This means more varieties can be assessed and the industry better served.

The laboratory is part of the **Horticultural Research Institute of Ontario** that focusses on improving the processing efficiency of crops and their use in food and beverage products. HRIO conducts studies at the horticulture experiment station at Simcoe and the muck research station in the Holland Marsh as well as at its production and breeding unit at Vineland.

Carbonated juice research also conducted at the Vineland laboratory over the past several years formed the basis of new sparkling grape juice products, with a range of flavors, now commercially available.

The future of Ontario's grape and wine industry depends to a large extent on new grape varieties adapted to local conditions. An active program at Vineland to develop improved wine and fresh market grape cultivars is underway with 28 controlled crosses in 1985. The inventory contains scores of named and unnamed grape cultivars and hybrids.

An important factor limiting the production of carrots in the Bradford and district marshes, California and overseas is cavity spot. The obstacle to control has been ignorance of the cause and conditions affecting this disorder.

After 20 years, the muck research station has obtained encouraging preliminary results that the fungus Pythium is involved. Treatments with the fungicide Metalaxyl gave sufficient control for 100 per cent of the treated carrots to be marketable; in the untreated plots, 74 per cent of the carrots developed cavity spot. If the fungicide can be proven effective commercially and registered, the benefit to the carrot industry will be about $1 million.

Six years of soil management study at Simcoe station indicate blueberries can be grown successfully in Haldimand-Norfolk's sandy soils. Yields of highbush blueberries improved by incorporating peat into soil, mulching plants with sawdust, irrigating and grassing between rows.

Two of Ontario's popular vegetables were found to yield more when rows were planted closer together. Simcoe's trials on cucumber rows showed that yield in dollars and tonnes per hectare increased significantly as spacing between rows decreased. And a second harvest trial on asparagus yielded highest per hectare from closer and more shallow plantings. The quality and maturity of both crops were not affected.

EDUCATION MORE POPULAR

A growing desire by young and adult alike to attend more workshops and courses is the conclusion the **Rural Organizations and Services Branch** drew,

The Middlesex County 4-H group makes another strong showing in the Queen's Guineas competition for beef calves at the Royal Winter Fair. They won the Reserve Champion title this year.

from the participation at many of its courses during the year.

About 40,000 people went to courses on foods and nutrition, skills development and leadership training co-sponsored by the branch, Kemptville and Centralia colleges. Workshops on goal setting, communications, time and stress management attracted 111 couples at Partners in Success: A Farm Couples Retreat, held by the branch in Gananoque, Sudbury, Guelph and Geneva Park.

The Master Gardener program was launched in three Ontario locations to train volunteers to handle consumer inquiries on gardening. These master gardeners must pass independent horticulture-related courses to qualify. New programs are underway in seven major centres of the province.

The Young Farmers Business Symposium, a joint effort between ROS and the Agricultural Representatives Branch, taught farm management, business analysis and decision-making to delegates aged 20-37 years across Ontario.

Under the leadership of 4,577 adult volunteers, 18,685 4-H members enhanced their leadership, communication and life skills. At the provincial leaders' conference, a new *4-H Leaders' Handbook* was released, detailing resources of leadership and skills development.

International Youth Year was marked by a special Young Speakers for Agriculture workshop held in Centralia, Guelph and Kemptville. Sixty rural youth were selected. They were eligible to participate in a public speaking contest at the Royal Winter Fair. The first place winner, who became Minister of Agriculture and Food for a day, was Marion McLeod, 16, of Glen Huron.

The Agriculture in the Classroom project continues to be promoted across the province. Four videos on agriculture were distributed widely to primary, junior and senior levels of Ontario schools.

Traditional branch support continued for the

232 agricultural societies with $928,000 in grants and 100,000 brochures to help them run Ontario's fall fairs and exhibitions. Horticultural societies received $274,000 in ministry grants. The ministry co-operated with the Ontario Plowmen's Association in hosting the International Plowing Match and Farm Machinery Show, which attracted 144,000 people to Elgin County September 17-21.

NEW MINISTRY BRANCH

Advisory & Technical Services Division. Ontario farmers faced extreme economic pressures during the year. The emphasis was on providing educational, advisory and management services, through group and individual meetings, to meet the challenges of operating a profitable farm business.

Early in April, the **Soil and Water Management Branch** was formed to reflect the increased emphasis on the wise use of Ontario's soil and water resources for a viable industry. It combines the drainage and capital improvements programs with new soil management and erosion control programs.

The soil management program promotes on-farm soil conservation. Fourteen senior soil conservation advisers were hired to counsel farmers, carry out demonstrations and provide educational programs. The advisers are also working with 12 conservation authorities, in first-ever agreements signed with OMAF over the year, to plan and carry out joint agricultural programs.

A benchmark survey was completed to assess the current land management practices on Ontario farms. Lastly, 380 soil erosion control devices and 400 manure storages were constructed and partially financed by the Ontario Soil Conservation and Environmental Protection Assistance Program (OSCEPAP).

The soil survey unit completed the field survey for Niagara and Middlesex and preliminary maps were prepared. The final map and report for the Haldimand-Norfolk region and reports for Ottawa-Carleton and Brant were completed. The Ontario Institute of Pedology, made up of soil scientists from the ministry, Agriculture Canada and the University of Guelph, signed a new five-year agreement and workplan. The institute classifies and interprets soil information to aid in crop production, land use planning, soil conservation and tile drainage programs.

To improve agricultural land, the branch makes drainage grants available to Ontario municipalities and oversees drainage loans to farmers. During the year, 2,457 grants totalling $8,745,632 were made to municipalities. In unorganized municipalities, payments were made on 26 drains. (Appendix VIII-3 & 4).

A total of $14,711,500 in tile drainage loans at eight per cent were made for 2,008 projects to the organized municipalities. At the same rate, $89,900 was lent directly to farmers on 11 tile drainage projects in the unorganized municipalities.

Each year, municipalities issue debentures to the Treasurer of Ontario and lend the money to farmers to finance the tile draining of agricultural lands. The maximum loan per individual was $20,000. (Appendix VIII-1).

A new program for encouraging use of erosion control devices on drains was introduced. The program provides a grant of 80 per cent of the cost of materials for these devices that are charged to lands used for agriculture. Grants totalling $5,667 were paid.

The Ontario Drainage Tribunal settled 90 complaint cases. Two part-time branch inspectors performed 234 spot checks on licensed contractors.

The digitization of the agricultural resource inventory, maintained by staff, began in January 1984 and most of the land use data have been completed, with work continuing on tile drainage and soils data.

A major and growing part of the ministry's work is in sponsoring and staffing seminars, workshops and other informational meetings, such as this "education and agriculture day" at the Ontario Agricultural Museum.

FARM BUSINESS FOCUS

Farm management training, mainly through seminars, for farmers in every county of the province was the brunt of the work of the **Agricultural Representatives Branch** this year.

About 15,000 training days were provided to nearly 4,000 farmers through the Management of the Farm Business Courses, put on by the branch, agriculture colleges and several community colleges with federal funding assistance. These courses ran three to five days on a variety of farm management topics.

In addition, many one-day presentations were organized by staff primarily in farm business (41%), livestock (22%), farm assistance programs (13%), soil and crop (11%) and other agricultural topics (13%). Examples of presentation topics included an explanation of corporate business structure, commodity updates, especially on marketing aspects and tax and estate planning.

Farm tax and business seminars were also organized and conducted by the branch for some 800 accountants, lawyers and tax filers; they featured presentations on farm tax issues as they apply to farm operations. Agrologists from major lending institutions worked with branch staff to arrange six one-day farm credit seminars to inform some 500 rural lenders about commodity outlook and agricultural credit-related issues.

As the "storefront" of the ministry, the branch offers first point of contact and advice to farmers for ministry programs (Appendix V). Assessing local needs and focussing ministry resources to meet farmers' requirements, staff monitor the delivery of programs such as the Ontario Farm Adjustment and Assistance Program, the Beginning Farmer Assistance Program or the Ontario Young Farmer Credit Program.

Other program highlights for the branch included the Ontario Farm Management Analysis Project. A provincial summary is prepared of individual farm operations, averaged by commodity. The report provides standards of performance on size, productivity, efficiency and profitability which farmers can use to compare their performance with similar operations.

A team of three staff members (two from the branch and one from Ridgetown college) was set up to direct the Agricultural Computer Extension (ACE) program. This is aimed at providing a resource for farmers, extension workers and others interested in learning and using computer technology.

Factsheets were prepared on such topics as selecting a system and computer bookkeeping. The ACE Newsletter went to 3,700 subscribers every two months. A software catalogue was also developed, seminars for farmers and staff training were organized and promotional exhibits for fairs were mounted with help from the Communications Branch.

Background development has taken place in the forthcoming Risk Management Program, aimed at educating the farm decision maker about risk management strategies. One farm business adviser is currently directing the plans to develop and test computerized budgets for livestock and crops and to train staff with the commodity budget information to teach farmer groups.

ANIMAL PROGRAMS MAINTAINED

The Red Meat Development Plan completed its second year of operation, under the co-ordination of the **Animal Industry Branch**. Some $5,563,700 was forwarded to participating beef cow-calf, stocker/slaughter and sheep producers. Enrolment increased to 6,763 producers, representing a total program enrolment of 7,727.

The plan is a set of initiatives designed to assist the beef and sheep industries increase their productivity and long-term viability.

The live lamb grading and tagging which began in a small way under the Red Meat Plan is now more popular because graded lambs are commanding about two cents more per pound than ungraded lambs on the same markets.

In the feed advisory program, new ration formulation programs were offered for dairy cattle, beef cows, beef feedlot and sheep. This new service is seen as independent of commercial influence for nutrient recommendations and ration formulation services.

A series of seminars were offered by branch staff. Dairy cattle specialists held workshops to explain the new amalgamated federal-provincial milk recording program. In all, 67 meetings were held with attendance by about 2,000 dairymen. The Ontario Dairy Days were also co-ordinated by staff at six provincial locations; a record crowd heard how to improve reproduction in the dairy herd.

The Eastern Ontario Dairy Breed Advancement Project comprised 50 kitchen meetings, with 317 dairy farmers attending.

Beef feedlot schools, cow-calf seminars and pasture days were special events held for beef cattle producers. And the branch organized seven seminars across Ontario to launch Pork Management 2000, a new production and financial record-keeping system for pork producers.

The sheep Record of Performance program continued to grow at an accelerated rate. There is an 83 per cent increase in the number of producers participating over 1984. A total of 428 rams were tested at three government-operated test stations.

Under the beef bull and herd test program, there was a 35 per cent increase in the bulls tests over 1984. Nearly 35,000 bulls started group gain testing—2,698 through government-contracted stations.

The average performance of animals tested on the Ontario ROP Swine program continues to improve, with both boars and gilts showing steady improvement toward leaner, faster-growing breeding stock.

The Swine Herd Health Policy enrolled 180 swine herds with 18,408 sows. About 2,746 post-mortem examinations were made on slaughtered animals as a basis for herd health classification. Veterinarians made 449 farm visits under this policy.

The Veterinary Assistance Policy for Designated Areas provided $546,342 to support veterinary services on 21,838 livestock calls. A ministry-operated clinic in North Cochrane district made 494 calls.

Fifty-three farm consultations were made under the cattle disease consultant program along with lectures, meetings, office and telephone consultations.

During the year, 158 major research locations were designated on 87 registration certificates under the Animals for Research Act. There were 272 unannounced inspections to ensure adequate care was provided to research animals.

Eight hundred and fifty-five unannounced inspections were made at 409 establishments licensed under the Riding Horse Establishment Act to see these animals received adequate care. Another 889 inspections were conducted on 717 premises licensed under the Livestock Medicines Act.

There were 11,692 certificates filed for brucellosis calf vaccine from April 1 to November 1. The branch provided free supplies and vaccines for heifer calves as part of the control program.

CROP TECHNOLOGY PROMOTED

Seminars, tours, night school, on-farm demonstrations and one-on-one consultations were the main tools used by staff of the **Plant Industry Branch** to promote new soil and crop technology and management practices.

Integrated Pest Management (IPM) activities focussed on continuing programs which have been implemented for peaches, apples, grapes, pears, onions and carrots. The total program involves about 370 commercial growers with regional monitoring carried out on about 8,000 hectares. IPM offers more effective pest control with minimal use of pesticides by monitoring pest activity and predicting accurate timing when controls are necessary.

A program for monitoring turnip mosaic virus is being launched in response to a severe outbreak of this virus in the rutabaga crop in 1985. The program is part of the $375,000 for rutabaga research over the next three years to help farmers cope with this devastating disease.

The Weed Alert Program received over 4,000 reports of problem weeds in Ontario. The program is promoted by the weeds and seeds unit of the branch, which administers the Ontario Weed Control Act. A monitoring service for triazine-resistant weeds was added to the program this year. Seminars for select seed growers were held at Guelph and Kemptville.

Although farm fuel prices dropped during the year, total energy costs continue to be the second highest operating cost on the average Ontario farm. Heating costs are also very high for greenhouse operators and some livestock farmers.

The Agriculture Energy Centre is actively working with these and other farmers on energy-efficient production techniques and alternate energy sources. Successful projects include heat exchangers in livestock buildings and on grain dryers. About $1 million in grants was paid out under the Greenhouse Energy Efficiency Incentive Program to help retrofit existing greenhouses with energy-efficient technology.

More than 500 co-operators throughout Ontario participated in a seasonal on-farm rainfall recording project, co-operatively sponsored by the Ontario Soil and Crop Improvement Association and the agroclimatology section of the branch.

This was the final year for planting under the Ontario Asparagus Incentive Program. The five-year program helped 319 applicants establish more than 1200 hectares at a cost of $1,336,552 to date.

The Ontario Tender Fruit for Processing Tree Planting Assistance Program has reimbursed more than 300 orchardists with $983,894 for the purchase of 152,707 clingstone peach trees and 68,302 Bartlett pear trees. This program has been extended for the 1986 planting year for clingstone peach trees only.

PRODUCERS, PESTICIDES AND PAPERS

The **Agricultural Laboratory Services Branch** continued to provide a wide range of analytical services primarily to assist the producer in his day-to-day production planning. The branch also worked to ensure food quality and improve the production capability of the industry by research and monitoring. The branch administers three discreet units: Agri-Food Laboratories, the pest diagnostic and advisory clinic and the pesticide residue testing lab.

Agri-Food Laboratories, a division of Griffith Laboratories, is under ministry contract to provide analyses of soil, feed and fruit leaf for nutrient requirements. During the year, the lab performed analyses on 57,626 farm soil samples, 12,326 greenhouse media samples, 17,738 livestock feed samples and 2,139 fruit leaf samples. Research samples made up 6,389 of the aggregate total of 89,829 samples.

The pest diagnostic and advisory clinic, operated through environmental biology at the University of Guelph, responded to 3,693 inquiries and diagnosed pest damage (insects, weeds and fungi) on 2,493 specimens during the year.

The pesticide lab is involved in four main areas of analysis: pesticides, industrial organics, toxic metals and food quality and composition. In programs of monitoring and research on food and environmental samples, the lab performed a total of 24,103 analyses for pesticides and 4,594 analyses for industrial organics. The laboratory performed 3,079 analyses for toxic metals for the utilization of sewage sludge program. And for the Oleomargarine and Edible Oils Act, 53 samples involving 126 analyses were done.

Staff published six scientific papers, six research abstracts, six technical reports and scientific articles and presented 10 scientific addresses.

PROGRESS IN INDONESIA

With the support of the **Veterinary Laboratory Services Branch**, the Canadian International Development Agency project in Indonesia started construction of veterinary diagnostic laboratories and guest houses last November.

The six-year project is expected to increase the efficiency of livestock production for the Indonesian small farmer, to improve veterinary diagnostic and investigative services and strengthen information systems for better treatment and control of animal diseases on the island of Java.

Five Canadian consultants worked on the project

in Yogyakarta during the past year, including a veterinary microbiologist, an epidemiologist and a diagnostic services co-ordinator. At the same time, three Indonesian veterinarians were at Canadian universities for postgraduate training.

The ministry will also help obtain Canadian-funded supplies and equipment for the labs which should be built by the fall of 1986 and fully operational in early 1987.

The branch administers six laboratories at Brighton, Guelph, Huron Park, Kemptville, New Liskeard and Ridgetown. These laboratories provide diagnostic, investigative and consultative services to the livestock industry, the veterinary profession and other ministry programs. A modern post-mortem room and laboratory at the Brighton facility were opened officially in October.

TABLE I

Laboratory	No. of Consignments 1984	1985	No. of Specimens 1984	1985
Brighton	4,232	4,271	37,445	37,363
Guelph	35,590	37,916	262,148	253,937
Huron Park	3,894	3,515	40,486	32,711
Kemptville	5,882	6,254	42,935	41,066
New Liskeard	2,130	2,263	8,439	10,248
Ridgetown	2,810	2,565	18,844	21,543
	54,538	56,784	410,297	396,868

Specimens are received from all species of livestock, including poultry and companion animals. In 1985, 1,352,517 procedures were carried out on 396,868 specimens from 56,784 consignments.

Staff consulted daily with veterinarians, livestock owners and others who needed help with animal disease and related problems. There were more than 5,700 office consultations, 24,900 by phone and over 700 field consultations.

The laboratory staff at Kemptville, Huron Park and Ridgetown provided class/lab instruction in animal health to students. At Guelph, the professional staff of the branch — most are associate faculty — were involved in both the undergraduate and graduate teaching programs at the Ontario Veterinary College. Staff also addressed, attended and participated in 279 veterinary and livestock industry meetings at the local, provincial, national and international levels.

Branch laboratories dealt with poultry health problems both in the field and the lab. Test procedures under the Ontario Hatchery and Supply Flock Policy were again carried out at the Guelph laboratory. The Fur Farms Act, providing for licensing of operators of fur farms, enabled the branch to issue 299 licenses for production of 551,093 mink pelts and 5,226 fox pelts in 1985, for a total value of about $18,840,000.

The branch continued to provide consultation to operators and industry on the detection and control of Aleutian Disease in the breeding herd population of ranched mink. This disease is a viral immunological disorder with serious economic impact. During the year, 23,000 samples were tested on 22 farms. To identify fur farms free of the disease, a mink registry has been developed, listing seven farms with mink for sale as breeding stock.

Finance and Administration

ANNIVERSARY OF CHANGE

Foodland Preservation & Financial Programs Division.

A major part of the re-organization which occurred early this fiscal year was moving the foodland preservation program to the financial and administrative area of the ministry. Part of this change also centred internal information technology services into a new branch.

During the year, a draft foodland preservation policy statement was released for public comment. This statement was drafted by the **Foodland Preservation Branch**, responsible for implementing the Food Land Guidelines — the Ontario government's policy to preserve prime agricultural land. It was issued under the Planning Act.

In a second development, a Right-to-Farm advisory committee was appointed by the minister to recommend options to protect Ontario farms from incompatible land uses and from complaints against normal farm practices. Findings from the advisory committee will be considered in conjunction with public comments on the draft policy statement.

The branch reviewed the following land use planning and development proposals for compliance with the guidelines: 89 official plans, 638 official plan amendments, 228 plans of subdivision, 764 zoning by-laws, 68 zoning order amendments, 6,543 severance applications, 15 municipal annexations, 116 Niagara Escarpment Commission permits, 53 gravel pit license applications and 80 environmental assessments for public projects.

Staff served as expert witnesses at 83 Ontario Municipal Board hearings to support compliance with the policy. They also made appearances at the Joint Board Hearing on Ontario Hydro Southwest Ontario Transmission Systems Expansion.

The branch provided expertise on agricultural land use planning on the Parkway Belt Steering Committee, the Niagara Escarpment Plan and the Ontario Pipeline Coordinating Committee. Staff advice was also sought on the Ontario Farm Lease Program for leasing of about 20,235 hectares of government-owned land to 500 farmers.

Under the Non-Resident Agricultural Land Interest Registration Act, the branch is responsible for monitoring the extent of non-resident ownership of farmland. During 1985, there were 3,459 hectares of farmland acquired by non-residents. Of this, 2,241 hectares were acquired by non-resident individuals who intend to immigrate to Canada. The net total of non-resident interests to March 31, 1986 was was 66,732 hectares or about one per cent of Ontario's agricultural land. (Appendix VI).

COMPUTER SYSTEMS SUPPORT

To focus the ministry's efforts in information technology, the **Management Systems Branch** was created this year. The branch is geared to improve the ministry's productivity and working environment by providing effective and efficient computer and other information technology services at all levels. Branch staff are predominantly programmers and programmer/analysts, with expertise in systems development, word processing and network management.

The systems unit of the branch is primarily involved in the development of mainframe and microcomputer applications. This includes on-going technical and production support for systems developed within. Applications range from developing major systems for programs like Tripartite Stabilization to customizing commercial software packages for special needs, such as Apiary Registration.

The office systems unit provides assistance in technology investment and training and lends support in operating the ministry's 5520 word processing system. New emphasis in this area will be on establishing local area networks (LAN's) and a wider variety of software packages.

The branch also has corporate responsibility for development of technology standards and policy. A major thrust in this area will begin in the next fiscal year with the development of a five-year information technology strategy for the ministry.

FRONT LINE HELP

Three new programs, administered by the **Farm Assistance Programs Branch**, were created during the year to help farmers and their families over the difficult period of adjustment in the agricultural industry.

The one-year, $50-million Ontario Family Farm Interest Rate Reduction (OFFIRR) program provided a direct interest reduction grant on up to $200,000 of long-term debt. Over 10,000 farmers applied for the program and $34.6 million was paid out in the fiscal year. Dairy, cash crop and swine producers participated most in the program, with the average grant ranging from $5,500 to $5,700.

Another new initiative is the $6-million Farmers in Transition (FIT) program, aimed at assisting farm families both who are trying to stay on the farm and who are re-establishing themselves outside the industry.

The program includes: an immediate temporary deferral of action against farmers enrolled in ministry financial assistance programs; a helpline, providing a 24-hour telephone information service; an independent farm family adviser service; re-establishment assistance, including a grant, wage subsidy and free course tuition; and a campaign to increase awareness of farmers' rights under existing programs.

In FIT's first year, 176 farm families had been referred to farm family advisers, 66 farm families had applied for re-establishment assistance and 582 calls had been received by the helpline.

The third new program, the Farm Operating Credit Assistance Program (FOCAP), has been operating from January 1, 1985 to provide an interest rate reduction on eligible floating rate bank loans on an annual basis for up to three years. The program also introduced annual operating loan guarantees for three years to 1987. During the year, FOCAP and remaining Ontario Farm Adjustment Assistance Program (OFAAP) guarantees provided assistance to more than 1600 farmers. With the introduction of FOCAP, however, the operating loan guarantees under OFAAP are being phased out.

Before

A ministry staffer sifts through a flood of mail containing applications for the new Ontario Family Farm Interest Rate Reduction (OFFIRR) program.

After

More than 10,000 applications are organized and processed, making OFFIRR one of the most popular farm assistance programs ever.

The Beginning Farmer Assistance Program (BFAP), introduced in 1983, has approved a total of 1,872 applications — 542 in this fiscal year — with total payouts of $12,209,633 to help first-time farmers get into the business.

Twenty-nine young farmers received loan recommendations totalling $1,180,461 under the Ontario Young Farmer Credit Program, which provides in-depth farm financial credit counselling to this group. And the Ontario Farm Tax Reduction Program, returning 60 per cent of property taxes paid by qualified owners of farm property, had total expenditures of $100,999,991.

The branch also administers 16 livestock assistance programs. Under the Dog Licensing and Live Stock and Poultry Protection Act, municipalities are reimbursed for paying farmers for livestock and poultry losses from wolves. Honey bee colony owners are also repaid for damage to their colonies and hives by bears — $280,964 this year. The Rabies Indemnity Program, reimbursing farmers for animals that die from rabies, accounted for $321,630. The remaining livestock assistance programs recompensed the agricultural community by $331,144.

FEW RATE INCREASES

This was a favorable year for the **Crop Insurance and Stabilization Branch**, with a surplus of $30 million realized. This eliminated the deficit of $16 million. Three years of favorable weather conditions resulted in few rate increases this year.

Of the major crops, only the forage plan had claims in excess of premium income. A reduction in flue-cured tobacco contracts was offset by increased contracts for other crops. The branch paid 4,800 claims, representing approximately $11 million.

The Canada-Ontario Crop Insurance Plan covered 49 crops grown on more than two million acres. About 32,000 contracts were sold with a premium income of $41.8 million and total insurance value of $489 million. The federal government contributed one-half of the premiums to the plan in 1985, or about $21 million.

Apples, barley, corn, soybean, white bean and winter wheat plans were offered on a voluntary basis by the stabilization commission. The Ontario government's two-thirds share of payments on these plans was $2.8 million. Producers participating in these programs are required to register expected sales and to pay advance fees equal to an estimated one-third of the expected payouts. Payments are made on registered production when producer returns fall below 95 per cent of the previous five-year average price. This average includes changes in cash costs of production.

In the area of red meat stabilization, the Ontario government covered all red meat producers to tripartite formula levels in 1985. This resulted in payments being made to 11,000 hog and 4,800 slaughter cattle producers. The Ontario contribution for red meat stabilization was $20.6 million; the federal contribution was $7.4 million.

For summaries of ministry revenues and expenditures for fiscal year 1985-86, see Appendix IX and X.

Marketing and Standards

EXPANDING ACTIVITIES

Marketing Division. New responsibilities have been added to the traditional mandate of the **Food Processing Branch** to develop an efficient food and beverage processing and manufacturing sector in Ontario. The expanded role now includes providing advisory and technical services to the industry, liaising with industry as a window to the government, its boards and agencies and promoting expansion and greater modernization of the food processing sector.

During the year, the branch was instrumental in providing a $2,500,000 interest-free loan to a major food processor in eastern Ontario. The branch has also continued to monitor assistance given under previous programs to Ontario food and beverage manufacturers and will continue to administer any future financial assistance programs as they become available.

A major study on the state of the food processing industry in Ontario was commissioned by the branch. It has identified the major sectors of the industry and targetted opportunities that may be available to food processors. A further study was completed for the branch on the opportunities and constraints for Ontario's tart cherry industry. Studies were also undertaken by the staff on areas as diverse as food dehydration, tomato paste and the lamb industry.

Staff played active roles outside their day-to-day branch activities with participation on many committees, including the Canola Council of Canada, the Processing Strawberry Research Corporation and the Asparagus and Cabbage Research Committees.

NEW MARKETING BOARD

A new marketing plan, establishing the Ontario Sheep Marketing Agency, was put in place in 1985 under the Farm Products Marketing Act. The purpose of the agency is to facilitate the marketing of sheep and promote consumption of lamb in the province.

This brings to 25 the number of marketing plans in Ontario, of which 23 are supervised by the Farm Products Marketing Board. The other two, dealing with milk and cream, are supervised by the Milk Commission of Ontario. Both bodies are administered by the **Farm Products Marketing Branch**.

Approximately 50 commodities, with a farm value of about $3 billion, were covered by marketing plans in Ontario this year.

During the year, the Farm Products Marketing Board and the Milk Commission held over 50 official meetings to address producer and processor concerns and to decide on issues of national and provincial

A Mountie stands on guard for the largest display of Ontario specialty foods in the U.S. during a 12-day promotion at Macy's in New York.

importance to the producers of regulated commodities in the agriculture and food industry.

The Milk Commission of Ontario also held a number of meetings with representatives of the dairy industry during the year, as part of a comprehensive review of Regulation 629 under the Milk Act. This regulation provides for the control of all aspects of quality, production, handling, transportation, processing and marketing of milk and milk products within Ontario.

Near the end of 1985, a review of the mandate and structure of the Farm Products Marketing Branch, the Farm Products Marketing Board and the Milk Commission of Ontario was conducted. The ensuing report and recommendations were approved for implementation in the next fiscal year.

INCREASED TRADE

Export sales of Ontario's agriculture and food products exceeded $1.8 billion in 1985. The recently expanded export program of the **Market Development Branch** created increased awareness of Ontario's agriculture and food exports around the world.

Highlighting the year, increased trade development continued toward the province's largest export market — the United States. The U.S. export marketing section was fully operational by October. The American market is classified into five regions, each represented by an agriculture and food trade development officer.

A food products mission of Ontario companies into Detroit represented the province successfully in this close but often overlooked market. A major effort to promote Ontario's specialty food products at Macy's in New York was also very successful.

A significant promotion of Ontario apple exports went off very well in a two-stage program, consisting of a mission of English buyers to Ontario orchards as well as a trade and consumer promotion in England. Marketing in the Pacific Rim also continued at an aggressive pace. Eleven ministry-sponsored companies participated in "Ag China 85", the largest agriculture trade show in that country.

In the past year, more than 50 trade missions consisting of 31 outgoing missions and 24 incoming delegations were conducted by the ministry. Some 300 representatives of Ontario companies, including 75 firms new to exporting, were involved in realizing some $110 million in direct annual sales to global markets.

A first-ever "How To Export" course proved very popular among Ontario exporters interested in expanding into the fastest growing market for agriculture and food products, the Far East. The Program to Raise Ontario Foods International Trade (PROFIT) continued seminars to attract Ontario agriculture and food companies looking to expand off-shore.

Assistance to the development of export markets continued with the Export Sales Aid Program. Grants of $330,000 were awarded toward completing 38 programs. Product reformulation, printing foreign labels and a new export brochure are examples of projects to receive up to 50 per cent funding.

FOODLAND ONTARIO

Three major promotions spotlighted Ontario fruit, vegetables and juices in the eighth year of this successful domestic marketing program of the Market Development Branch. Foodland Ontario profiled summer salad vegetables, peaches, strawberries and apples; tomato, pure apple and grape juices were a featured campaign. And for the first time, onions, cabbage, potatoes and carrots were grouped in a winter promotion.

Four new recipe brochures were released on maple syrup, onions, cabbage and trout. Retailer participation in the program remained strong, introducing a permanent egg price board in almost all major food chains.

The ministry hosted a two-day series of seminars which brought federal and provincial agriculture personnel together for an exchange about marketing and promotion. Foodland Ontario also sponsored a successful agri-marketing seminar on public relations and retail merchandising for some 60 members of provincial commodity associations.

Through the continuing efforts of the shared-cost grants program, 29 provincial marketing boards and associations received over $600,000 to assist in product promotion or market research of Ontario foods.

BETTER MILK TESTING

Quality and Standards Division. In July, the financial protection unit was transferred from Marketing to this division. As part of the licensing procedures, the unit prepares financial data supplied by vegetable processors, grain dealers and beef cattle dealers for review by financial responsibility review committees. The unit also serves three financial protection boards, which administer funds for beef cattle, grain corn, soybeans and processing vegetables.

This was the first full year of operation for the Central Milk Testing Laboratory, run by the **Dairy Inspection Branch**. The new system uses fresh milk samples for both composition and quality analyses. Increased

emphasis has been placed on testing for inhibitors (antibiotics and other substances).

Every producer's milk is being tested twice a month to ensure milk and dairy products are antibiotic-free for consumers. Producer payment and processor billing is based on the composition results from the lab. The composition-testing instruments were fine tuned during the year to provide the most accurate and representative sample results possible. (Appendix I-4).

The milk and cream quality program is charged with ensuring that only quality milk and cream reach market in Ontario. Program effectiveness is accomplished through farm premise inspection, trouble-shooting farm quality problems and laboratory analysis of raw milk sold to processing plants. Cream assistance from BILD for purchase of cream processing equipment and farm coolers totalled $81,955. The BILD cream assistance program expired March 31, 1986. (Appendix I-1 & 2).

About 200 plants were inspected and counselled on technical and quality problems. Plant audit staff completed milk utilization audits of $1.1 billion in annual purchases of milk, cream and goat milk by 165 milk and cream processing plants to ensure producers were paid properly. Staff also audited over $9.7 million of equipment purchases eligible under the BILD, whey and cream assistance programs. Permits were also issued to build new plants or to alter old ones. (Appendix I-3).

Extension activities included providing accounting services for the International Plowing Match and training seminars for dairy plant personnel.

BEEFED-UP SAFEGUARDS

Two inspectors were added to the **Livestock Inspection Branch** during the year to check on weighing and trimming procedures of beef carcasses, specifically those settled on a rail weight and rail grade basis. Changes in regulations in the Beef Cattle Marketing Act required that inspectors check this aspect of marketing. The inspectors also checked live carcasses offered for sale at packing plants and live stock community sales as to weighing procedures.

There were 287 plants licensed under the Meat Inspection Act (Ontario) in 1985. Meat inspection service is provided in these plants to protect public health. This year, 1,095,585 red meat and 9,160,337 poultry carcasses were inspected and approved. (Appendix III-1 & 2).

Suspect animals are inspected for inhibitory substances and are condemned if residues are found. An ongoing survey for the presence of trichina in hogs has failed to turn up evidence of this parasite in Ontario. Samples of meat (liver and kidney) were taken from selected areas of the province and tested for residues of cadmium and alachlor. Results revealed safe levels.

During the year, 466 livestock dealers were licensed under the Beef Cattle Financial Protection Program. The licencees are required to demonstrate financial responsibility to pay promptly for cattle purchases and to submit fees to the fund for livestock producers. The fees — 10 cents per head per transaction by seller, buyer and, where applicable, agent — are submitted to the fund which protects producers and licensed dealers from payment default by licensed livestock dealers.

The Dead Animal Disposal Program protects the public from consuming meat from animals that have died from disease or causes other than slaughter. (Appendix III-3).

To protect livestock health, all animals sold at livestock community sales are inspected by veterinary inspectors before the sale. Some 64 licensed community sales conducted 2,495 sales of 1,323,139 animals. All livestock community sales are licensed. Sale facilities must comply with structural and sanitary requirements. Sale operators are bonded to protect those who ship cattle to the sale barn. (Appendix III-4).

There were 146 charges laid from investigations carried out by the **investigative unit** for offences against the various acts administered by the Quality and Standards Division.

The unit is engaged in the primary enforcement of the Dead Animal Disposal Act, the Oleomargarine Act, the Edible Oil Products Act and the Live Stock and Live Stock Products Act. Investigations are conducted into suspected violations of the Meat Inspection Act which, along with the Dead Animal Disposal Act, is designed to protect the food people eat.

The unit is called upon by various ministry branches to investigate applicants suspected of fraud in connection with applications for financial assistance and claims for crop insurance. From these investigations, two charges were laid.

PRODUCT PROTECTION

A new initiative was undertaken by the **Fruit and Vegetable Inspection Branch**, Agriculture Canada and the Ontario Fruit and Vegetable Growers' Association to fund a study into the constraints and the opportunities facing the Ontario produce industry.

For the first time, the apiary programs were established this year within the ministry under the direction of an apiculture specialist. In prior years, staff at the University of Guelph provided apiary inspection and extension programs on a contract basis. A survey of Ontario bees was initiated for the potentially damaging tracheal mite. Some 667 analyzed samples were found to have no mites but the program to monitor bees will continue.

Inspection for American Foulbrood involved 58 inspectors checking 33,056 colonies in 3,442 apiaries and destroyed 726 hives with American Foulbrood. This represented an increase from 1.5 per cent of inspected hives in 1984 to 2.2 per cent in 1986. (Appendix II-2).

More than 32,000 inspections of fresh fruit, vegetables, honey and maple products were carried out under the direction of the branch. These inspections are to ensure the quality and marketability of these products. Twelve grading and testing programs were also provided for the processing fruit, vegetable and tobacco sectors, generating revenues of $651,194.

These cost-recovery programs provided a means of determining the level of payment for crops worth more than $400 million while ensuring product quality. (Appendix II-1).

APPENDIX I-1

DAIRY INSPECTION BRANCH
MILK QUALITY PROGRAM

Raw Milk Quality – On December 31, 1985 there was a total of 10,418 producers producing milk (GROUP I – 9,547: GROUP II – 1,023). All milk produced must meet the same Grade A quality standards.

Bacteria Count x 1000	0-9	10-19	20-49	50-74	75-99	99
Number	60,498	34,637	17,441	3,276	1,118	3,592
Per Cent	50.2	28.7	14.5	2.7	0.9	3.0

The Somatic Cell Count measures the number of somatic cells or leucocytes in milk. The provincial average for 1985 was 351,689 cells/ml of milk.

Somatic Cell Count x 1000	0-299	300-499	500-799	799
Number	60,621	34,957	17,303	5,759
Percent	51.1	29.5	14.6	4.8

Inhibitors – Each producer's milk is tested twice per month for inhibitors. A total of 64[illegible] samples tested positive for inhibitors.

Freezing Point – The milk of every producer is routinely monitored every 3 months for freezing point. A total of 134 samples tested positive for freezing point in 1985.

APPENDIX I-2

NUMBER OF QUALITY PENALTIES

	January - December 1985	
Bacteria Penalties	$1.00/hl	485
	$3.00/hl	102
	$5.00/hl	39
Inhibitor Penalties	$2.00/hl	581
	$4.00/hl	59
	$6.00/hl	5
	$8.00/hl	–
Freezing Point Penalties	$2.00/hl	118
	$4.00/hl	11
	$6.00/hl	4
	$8.00/hl	1

APPENDIX I-3

Licences Issued June 1, 1985 to May 31, 1986

Fluid	Number
Processor-distributor	60
Non-processor-distributor	142
Agent distributor	349
Warehouse-distributor	55
TOTAL	606

APPENDIX I-4

CENTRAL MILK TESTING LABORATORY

WORK LOAD (April 1, 1985–March 31, 1986)

Description	Number of Samples	Number of Analyses
TESTING UNDER 3-PARTY AGREEMENT		
Official Fresh Milk Testing	494,400	1,977,600
Retests	4,944	19,776
Preparation and testing of calibration milks (in lab use)	3,500	14,000
Preparation and testing of control milks (in lab use)	26,000	104,000
Service samples	1,248	4,992
Milk fat (Mojonnier test)	6,863	6,863
Protein (Kjeldahl test)	5,946	5,946
Lactose (Polarimetric)	1,500	1,500
Freezing Point	38,879	38,879
Phosphatase tests	700	700
Random Samples	6,240	17,940
Preparation and testing of calibration samples for research, U. of G., dairy plants and DHIC laboratories	36,500	36,500
Acid degree determinations	2,500	2,500
Special requested miscellaneous samples (fat, protein, lactose, S.N.F.)	1,200	1,200
Other samples tested	150	150
Goat milk samples and miscellaneous tests	1,200	1,200
Subtotal	631,770	2,233,746
TESTING FOR REGULATORY FUNCTIONS		
Package milk products	9,161	9,161
Freezing point	8,161	8,161
Total solids	3,000	3,000
Milk grade tests	3,600	3,600
Cottage Cheese Grade Test	130	130
Electrophoreses – goats' milk	156	156
Brucellosis (by Agri Canada)	61,800	61,800
Micro biological tests	515	515
Somatic Cell Control	300	300
Calibration samples for Fossomatic	10,350	10,350
Quality Testing – Bacteria	123,600	123,600
Fossomatic – Somatic Cells	123,600	123,600
Inhibitors	123,600	123,600
Control for Milk – Bacteria	200	200
Containing Somatic Cells D.M.S.C.C.	72	72
Standard Disc Assay	3,241	3,241
Vial Sterility Check	20	20
Cottage Cheese Bacteriology	130	130
Petrifoss Comparison	200	200
Subtotal	471,836	471,836
TOTAL	1,103,606	2,705,582

APPENDIX II-1

FRUIT AND VEGETABLE INSPECTION BRANCH
SUMMARY OF REVENUE

LICENCES	1985/86	1984/85
Controlled-Atmosphere storage	$ 814	$ 984
Nursery operators and dealers	197	192
Produce dealers	11,775	12,950
Grain dealers and storage operators	33,850	–
TOTAL	$ 46,636	$ 14,126

REVENUE GENERATED BY FRUIT, VEGETABLE AND TOBACCO GRADING PROGRAMS		
Apple	$7,709	$5,386
Asparagus	9,095	10,274
Bean (Green & Wax)	8,177	8,156
Cherry	32,511	28,705
Cucumber	2,928	3,759
Grape (juice)	1,686	–
Grape (wine)	24,641	21,921
Lettuce	6,385	6,781
Pea	8,671	4,481
Potato	27,512	45,197
Tobacco (burley)	–	5,785
Tobacco (flue-cured)	–	16,996
Tomato	521,919	829,336
TOTAL	$651,194	$987,605

APPENDIX II-2

ONTARIO APIARY INSPECTION AND REGISTRATION FOR 1985

County	Apiaries Inspected	Apiaries Diseased	Colonies Inspected	Colonies Diseased
ALGOMA	33	1	151	6
BRANT	83	14	794	46
BRUCE	80	18	1373	44
DUFFERIN	40	2	412	3
DUNDAS	19	1	265	1
DURHAM	119	6	1031	19
ELGIN	22	–	224	–
ESSEX	59	2	211	4
FRONTENAC	42	3	335	17
GRENVILLE	83	4	329	19
GREY	97	7	862	27
HALDIMAND/NORFOLK	102	2	1898	4
HALIBURTON	17	–	76	–
HALTON	54	1	406	2
HAMILTON/WENTWORTH	238	6	1425	12
HASTINGS	165	24	1892	41
HURON	28	–	410	–
KENT	9	1	74	1
LAMBTON	25	5	328	9
LANARK	52	1	391	2
LEEDS	74	–	373	–
LENNOX/ADDINGTON	88	5	514	7
MANITOULIN	5	–	28	–
MIDDLESEX	127	1	874	1
NIAGARA	187	4	2713	11
NIPISSING	6	–	36	–
NORTHUMBERLAND	133	3	1328	38
OTTAWA/CARLETON	166	4	1001	24
OXFORD	60	4	485	5
PARRY SOUND	13	–	83	–
PEEL	54	7	378	13
PERTH	186	53	1999	247
PETERBOROUGH	68	3	695	3
PRESCOTT	23	1	466	2
PRINCE EDWARD	125	7	1125	9
RENFREW	31	5	363	33
RUSSELL	3	–	47	–
SIMCOE	111	–	1268	–
STORMONT	13	2	114	11
SUDBURY	40	2	237	3
THUNDER BAY	86	–	523	–
TIMISKAMING	23	1	544	5
VICTORIA	113	–	1305	–
WATERLOO	123	14	1018	35
WELLINGTON	54	5	696	20
YORK	163	2	1956	2
1985 TOTALS	3,442	221	33,056	726
1984 TOTALS	3,373	186	32,598	495
1983 TOTALS	3,709	197	37,788	525

1985 REGISTRATIONS

Apiaries 4,491
Colonies 52,436

% DISEASED COLONIES

1985 – 2.2%
1984 – 1.5%
1983 – 1.4%

APPENDIX III-1

LIVESTOCK INSPECTION BRANCH SUMMARY OF RED MEAT CARCASSES –1985

Steers	76,605
Heifers	69,853
Cows	10,997
Bulls	6,432
Calves	66,997
Market hogs	373,412
Sows	6,549
Boars	2,829
Stags	958
Ridglings	490
Sheep	24,160
Lambs	79,608
Goats	16,223
Other (buffalo, deer, etc.)	66
Rabbits	360,421

APPENDIX III-2

SUMMARY OF POULTRY CARCASSES – 1985

Chickens	8,115,299
Fowl	516,291
Turkeys	127,877
Ducks	13,790
Geese	13,042
Quail	311,343
Pheasants	19,730
Pigeons	45
Guinea Fowl	30
Cornish Hens	41,880

APPENDIX III - 3

DEAD ANIMAL DISPOSAL ACT

Number of Dead Animals Collected – 1985, 1984, 1983

	1985	1984	1983
Cattle	35,959	38,437	38,733
Calves	76,627	76,372	76,960
Horses	2,586	2,557	2,470
Swine	114,034	112,753	104,546
Sheep & Lamb	3,227	3,731	3,731
Goats	807	866	840
Other	107	77	826

APPENDIX III - 4

COMMUNITY SALES

January 1 – December 31 – 1985, 1984, 1983 & 1982

	1985	1984	1983	1982
Cattle sold for slaughter	315,233	312,768	332,746	329,527
Cattle sold back to country	287,129	291,486	304,816	317,748
Calves	185,850	199,748	203,502	200,873
Hogs	475,300	547,248	618,207	641,941
Horses	6,682	6,101	6,140	6,803
Sheep, Lambs and Goats	52,945	51,160	52,673	50,353
TOTAL ANIMALS	1,323,139	1,408,511	1,518,084	1,546,582
Licences issued	64	65	60	67
Special licences	56	58	48	44
Sales conducted	2,495	2,549	2,651	2,796

APPENDIX IV

[1]PROVINCIAL PESTICIDES RESIDUE TESTING LAB

Distribution of chemical analyses performed for Ontario Government Ministries 1985-86

	OMAF	U. of G.,[2] & Env. Canada	Environment	Natural Resources	Health, Transportation & Communications & Ont. Hydro
Animal Origin					
Insecticide	627	2,015	18	1,002	449
Fungicide	79	4	0	0	0
Herbicide	85	5	6	0	6
Organo pollutants	899	2,096	0	1,058	360
Metals & non metals	376	20	0	2,097	0
Subtotal	2,066	4,136	24	4,157	815
Vegetable origin					
Insecticide	1,071	1,585	58	3	4
Fungicide	552	1,639	27	0	0
Herbicide	1,076	376	486	24	10
Organo pollutants	39	7	1	0	0
Metals & non metals	282	4	0	6	0
Subtotal	3,020	3,611	572	33	14
Mineral origin					
Insecticide	733	9	337	0	1
Fungicides	15	16	21	0	0
Herbicide	5,770	138	5,654	62	144
Organo pollutants	104	0	27	0	3
Metals & non metals	104	0	186	4	0
Subtotal	6,726	163	6,225	66	148
TOTAL	11,812	7,910	6,821	4,256	977
Sample Submission	8,260	2,717	3,637	1,325	529

[1]A total of 31,776 analyses were conducted on 16,468 samples.
[2]Agriculture & Food performed 3,609 analyses jointly with Environment Canada and 4301 analyses jointly with the University of Guelph.
[3]721 samples of tobacco were analyzed for maleic hydrazide.

APPENDIX V

AGRICULTURAL REPRESENTATIVES BRANCH
GENERAL PUBLICITY

In addition to individual and group contacts made by Branch staff, there is considerable involvement in disseminating information through a variety of channels. These are as follows:

Press Releases	2,177
Radio Broadcasts	979
Television	51
Newsletters	225

APPENDIX VI

NON-RESIDENT AGRICULTURAL LAND INTERESTS REGISTRATION ACT
Agricultural Land Interests Registered by Non-Residents to March 31, 1986

County/Municipality	Farmland Acreage	Registered Non-Resident Acreage
ALGOMA	121,257	346
BRANT	180,571	1,687
BRUCE	670,161	9,360
COCHRANE	132,558	253
DUFFERIN	263,882	1,480
DURHAM	405,621	1,718
ELGIN	411,739	2,522
ESSEX	359,555	4,770
FRONTENAC	335,941	3,143
GREY	763,197	3,020
HALDIMAND-NORFOLK	584,997	7,506
HALTON	138,765	9,511
HAMILTON-WENTWORTH	177,313	853
HASTINGS	432,650	2,232
HURON	752,637	17,344
KENORA	62,771	132
KENT	540,341	3,468
LAMBTON	618,337	10,860
LANARK	407,273	680
LEEDS & GRENVILLE	528,531	919
LENNOX & ADDINGTON	266,752	3,297
MANITOULIN	256,978	3,535
METRO TORONTO	N/A	361
MIDDLESEX	682,524	4,353
MUSKOKA	48,660	851
NIAGARA	285,705	1,188
NIPISSING	142,459	0
NORTHUMBERLAND	380,832	394
OTTAWA-CARLETON	362,595	1,799
OXFORD	440,586	3,535
PARRY SOUND	161,842	5,680
PEEL	183,161	1,726
PERTH	503,962	7,349
PETERBOROUGH	373,173	1,020
PRESCOTT & RUSSELL	356,975	2,876
PRINCE EDWARD	200,194	2,134
RAINY RIVER	238,321	18,587
RENFREW	542,711	1,377
SIMCOE	649,834	3,248
STORMONT, DUNDAS & GLENGARRY	621,702	5,040
SUDBURY	146,589	0
THUNDER BAY	78,321	324
TIMISKAMING	245,864	2,039
VICTORIA	500,916	980
WATERLOO	260,907	3,912
WELLINGTON	535,935	4,322
YORK	259,257	3,161
Total acres	16,614,852	164,892
Total hectares	6,724,031	66,732

Registered interests acquired prior to	1981	86,389
Registered interests acquired in –	1981	38,223
–	1982	14,944
–	1983	8,164
–	1984	7,626
–	1985	8,498
to March	1986	1,048
Net total of acres registered		164,892
Net total of hectares registered		66,732

Out of acres acquired in 1983 460 acres by Landed Immigrants
1984 2,826 acres by Landed Immigrants
1985 5,545 acres by Landed Immigrants
1986 175 acres by Landed Immigrants

APPENDIX VII-1

ECONOMICS & POLICY COORDINATION BRANCH

Farm Cash Receipts, Ontario 1983-1985

	1983	1984	1985
		-$'000-	
Wheat	91,511	111,715	137,470
Oats	2,263	2,182	2,320
Barley	15,846	15,916	16,521
Rye	755	841	798
Soybeans	246,926	205,169	229,286
Corn	460,035	400,177	377,213
Potatoes	51,278	54,098	40,449
Fruit	109,555	108,351	112,577
Vegetables	271,559	294,502	308,274
Floriculture and Nursery	172,878	202,200	235,593
Tobacco	249,414	322,020	117,449
Dry Beans	14,666	25,414	27,865
Other Crops	77,053	131,286	220,738
Crop Insurance Payments	78,896	18,275	20,000
Total Crops	1,842,635	1,892,146	1,846,553
Cattle	1,038,395	1,007,827	968,933
Calves	93,101	108,047	104,786
Hogs	596,472	625,809	575,602
Sheep and Lambs	11,920	12,642	10,363
Dairy Products	847,804	912,663	928,476
Poultry	274,701	317,421	323,972
Eggs	189,599	203,046	190,164
Honey	6,769	8,684	7,349
Fur	16,481	17,517	20,396
Wool	414	520	403
Other Livestock Products	24,605	25,713	25,044
Total Livestock & Products	3,100,261	3,239,889	3,155,488
Forest and Maple Products	16,500	17,081	18,299
Provincial Income Stabilization Program	1,369	10,769	4,092
Dairy Supp. Payments	87,454	90,238	89,096
Deficiency Payments	19,490	79,911	3,550
Total Cash Receipts from Farm Operations	5,067,709	5,330,034	5,117,078

Farm Operating Expenses and Depreciation Charges, Ontario, 1983-1985

	1983	1984	1985
		-$'000-	
Taxes	51,121	45,078	48,233
Gross Farm Rent	122,694	111,498	110,996
Wages to Labor	420,974	422,572	456,988
Interest on Indebtedness	485,378	502,013	457,806
Total Machinery Expenses	432,421	455,452	481,948
Fuel and Oil	208,094	223,722	240,949
Machinery Repairs and other machinery expenses	224,327	231,730	240,999
Fertilizer and Lime	239,837	274,613	282,306
Fertilizer	238,018	272,530	280,161
Lime	1,819	2,083	2,145
Other Crop Expenses	281,638	293,004	290,396
Pesticides	126,307	127,444	125,660
Seed	126,128	136,726	133,855
Twine, Wire and Containers	29,203	28,834	30,881
Feed	681,503	723,756	653,552
Other Livestock Expenses	316,690	297,635	312,715
Feeder Cattle	250,928	231,142	244,765
Breed Association Fees	3,182	3,235	3,364
A.I. Fees & Vet. Expenses	62,580	63,258	64,586
Repairs to Buildings	78,439	79,223	81,758
Electricity	74,342	79,100	87,722
Telephone	20,928	21,556	22,095
Miscellaneous Expenses	311,202	334,091	342,921
Insurance	34,270	34,967	34,700
Fencing	10,916	10,370	10,671
Custom work	41,460	44,524	47,062
Heating Fuel	89,455	105,020	111,951
Other	135,001	139,210	138,537
Total operating expenses	3,517,167	3,639,591	3,629,436
Depreciation on buildings	189,775	182,946	174,531
Depreciation on machinery	449,290	443,451	439,927
Total Operating Expenses and Depreciation Charges	4,156,232	4,265,988	4,243,894

Source: Statistics Canada

APPENDIX VII-2

FARM MARKET NEWS SERVICE
SUMMARY OF USER CALLS TO DAILY MARKET PROGRAMS, 1985

Daily Reports	Radio Calls	Total Calls
Fruit and Vegetable	1,180	4,766
Hogs	3,576	22,079
Cash and Futures	2,657	21,103
Feed Grain	1,167	4,241
Cattle and Sheep	6,254	21,680
Farm Market Summary	5,554	8,847
TOTAL	20,388	82,716

APPENDIX VIII-1

TILE DRAINAGE DEBENTURES PURCHASED

Fiscal Year April 1, 1985 – March 31, 1986

Municipality	No. of Projects	Loan Amount
ALGOMA		
Johnson	1	7,100.00
Laird	1	2,300.00
MacDonald et al	2	11,000.00
St. Joseph	1	3,700.00
Thessalon Township	1	5,100.00
	6	29,200.00
BRANT		
Burford	4	36,700.00
	4	36,700.00
BRUCE		
Arran	8	52,200.00
Brant	7	74,600.00
Bruce	7	58,700.00
Carrick	3	29,100.00
Culross	4	24,100.00
Eastnor	3	14,700.00
Elderslie	5	28,500.00
Greenock	9	57,200.00
Huron	13	108,500.00
Kincardine	9	50,600.00
Kinloss	6	25,300.00
Lindsay	1	6,900.00
Saugeen	5	43,900.00
	80	574,300.00
DUFFERIN		
Amaranth	5	38,900.00
East Garafraxa	3	19,900.00
East Luther	7	46,900.00
Melancthon	2	18,900.00
Mono	2	4,400.00
Mulmur	3	6,700.00
	22	135,700.00
DUNDAS		
Matilda	25	209,800.00
Mountain	21	158,300.00
Williamsburg	4	40,700.00
Winchester	34	202,900.00
	84	611,700.00
DURHAM		
Brock	5	29,100.00
Newcastle	5	37,100.00
Scugog	7	40,100.00
Uxbridge	1	6,200.00
	18	112,500.00
ELGIN		
Aldborough	19	194,200.00
Bayham	5	14,000.00
Dunwich	31	243,100.00
Malahide	1	4,000.00
South Dorchester	5	40,300.00
Southwold	2	20,000.00
Yarmouth	16	149,600.00
	79	665,200.00

Municipality	No. of Projects	Loan Amount
ESSEX		
Anderdon	4	26,500.00
Colchester North	13	34,700.00
Colchester South	11	78,600.00
Gosfield South	9	67,300.00
Maidstone	10	61,600.00
Malden	2	8,400.00
Mersea	17	139,900.00
Pelee	2	13,000.00
Rochester	3	21,600.00
Sandwich South	3	14,400.00
Sandwich West	8	40,700.00
Tilbury North	5	24,600.00
Tilbury West	4	29,300.00
	91	560,600.00
FRONTENAC		
Howe Island	1	11,100.00
Kingston	2	13,100.00
Pittsburgh	1	20,000.00
Wolfe Island	1	7,200.00
	5	51,400.00
GLENGARRY		
Charlottenburgh	12	96,400.00
Kenyon	21	89,300.00
Lancaster	17	125,200.00
Lochiel	15	85,100.00
	65	396,000.00
GRENVILLE		
Augusta	2	8,000.00
Edwardsburgh	5	40,100.00
Oxford-on-Rideau	2	18,200.00
South Gower	8	50,500.00
Wolford	2	20,800.00
	19	137,600.00
GREY		
Bentinck	1	5,100.00
Collingwood	5	37,800.00
Derby	2	14,300.00
Egremont	4	51,700.00
Euphrasia	2	9,500.00
Normanby	2	12,600.00
Osprey	2	8,000.00
Proton	7	45,200.00
St. Vincent	3	12,400.00
Sullivan	1	2,400.00
Sydenham	4	22,400.00
	33	221,400.00
HALDIMAND-NORFOLK		
Delhi	5	24,900.00
Dunnville	11	62,800.00
Nanticoke	15	115,400.00
Norfolk	7	49,500.00
	38	252,600.00
HALTON		
Halton Hills	2	10,200.00
	2	10,200.00

TILE DRAINAGE DEBENTURES PURCHASED

Municipality	No. of Projects	Loan Amount
HAMILTON-WENTWORTH		
Ancaster	3	13,900.00
Flamborough	3	20,300.00
Glanbrook	5	21,300.00
Stoney Creek	1	2,200.00
	12	57,700.00
HASTINGS		
Hungerford	3	13,200.00
Huntingdon	2	9,700.00
Rawdon	7	36,500.00
Sidney	1	10,000.00
Thurlow	2	21,600.00
	15	91,000.00
HURON		
Ashfield	16	125,900.00
Colborne	5	21,300.00
East Wawanosh	2	12,400.00
Goderich	9	71,000.00
Grey	6	36,400.00
Hay	10	107,300.00
Howick	6	26,000.00
Hullett	17	102,100.00
McKillop	20	140,300.00
Morris	10	90,400.00
Stanley	18	90,000.00
Stephen	10	62,100.00
Tuckersmith	11	108,700.00
Turnberry	7	17,700.00
Usborne	16	125,200.00
West Wawanosh	7	38,800.00
	170	1,175,600.00
KENT		
Camden	18	93,400.00
Chatham	21	130,500.00
Dover	16	97,700.00
Harwich	29	288,700.00
Howard	12	86,000.00
Orford	8	47,400.00
Raleigh	25	151,800.00
Romney	1	13,800.00
Tilbury East	9	42,400.00
Zone	5	46,200.00
	144	997,900.00
LAMBTON		
Bosanquet	29	227,700.00
Brooke	31	259,400.00
Dawn	14	105,100.00
Enniskillen	20	146,900.00
Euphemia	7	53,800.00
Moore	20	186,300.00
Petrolia	2	27,800.00
Plympton	26	214,600.00
Sarnia	14	151,700.00
Sombra	19	168,700.00
Warwick	24	219,800.00
	206	1,761,800.00

Municipality	No. of Projects	Loan Amount
LANARK		
Bathurst	1	7,000.00
Beckwith	3	18,700.00
Pakenham	2	14,200.00
	6	39,900.00
LEEDS		
Elizabethtown	1	5,600.00
Front Leeds & Lansdowne	2	11,000.00
Rear of Yonge, Escott	2	7,800.00
South Crosby	1	7,100.00
	6	31,500.00
LENNOX & ADDINGTON		
Adolphustown	1	20,000.00
Camden East	1	3,700.00
North Fredericksburgh	2	29,000.00
	4	52,700.00
MANITOULIN		
Assiginack	1	6,600.00
Barrie Island	1	6,900.00
Sandfield	1	4,300.00
	3	17,800.00
MIDDLESEX		
Adelaide	13	131,100.00
Biddulph	8	82,200.00
Caradoc	8	54,600.00
Delaware	3	19,800.00
East Williams	16	132,700.00
Ekfrid	16	150,700.00
Lobo	5	27,300.00
London	17	123,400.00
McGillivray	29	249,000.00
Metcalfe	6	38,700.00
Mosa	7	56,400.00
North Dorchester	7	47,000.00
West Nissouri	8	80,900.00
West Williams	13	65,500.00
Westminster	2	9,000.00
	158	1,268,300.00
NIAGARA		
Lincoln	13	107,200.00
Niagara Falls	1	4,500.00
Niagara-on-the-Lake	16	107,000.00
Pelham	1	18,600.00
St. Catharines	1	14,000.00
Wainfleet	6	65,400.00
West Lincoln	4	21,700.00
	42	338,400.00
NIPISSING		
Caldwell	6	39,000.00
Springer	5	34,400.00
	11	73,400.00

TILE DRAINAGE DEBENTURES PURCHASED

Municipality	No. of Projects	Loan Amount
NORTHUMBERLAND		
Alnwick	1	3,800.00
Brighton	2	10,900.00
Cramahe	2	9,800.00
Hamilton	4	18,600.00
Hope	2	10,500.00
Murray	2	19,200.00
Seymour	1	2,000.00
	14	74,800.00
OTTAWA-CARLETON		
Cumberland	11	80,000.00
Gloucester	1	4,400.00
Goulbourn	3	25,200.00
March	1	3,000.00
Nepean	2	16,800.00
Osgoode	15	112,000.00
Rideau	12	88,600.00
West Carleton	14	102,000.00
	59	432,000.00
OXFORD		
Blandford-Blenheim	10	69,600.00
East Zorra-Tavistock	9	53,900.00
Norwich	9	52,500.00
Southwest Oxford	14	134,000.00
Zorra	31	251,100.00
	73	561,100.00
PEEL		
Albion	1	7,200.00
Caledon	6	53,000.00
	7	60,200.00
PERTH		
Blanshard	22	156,300.00
Downie	12	95,600.00
Ellice	23	211,300.00
Elma	27	156,500.00
Fullarton	6	40,200.00
Hibbert	22	134,500.00
Logan	19	137,200.00
Mornington	10	66,000.00
North Easthope	5	32,100.00
South Easthope	7	41,500.00
Wallace	10	47,700.00
	163	1,118,900.00
PETERBOROUGH		
Asphodel	2	22,200.00
Douro	2	7,900.00
Otonabee	1	4,100.00
	5	34,200.00
PRESCOTT		
Alfred	1	19,600.00
Caledonia	5	37,700.00
East Hawkesbury	18	101,800.00
Longueuil	3	30,200.00
N. Plantagenet	6	55,400.00
S. Plantagenet	20	157,200.00
West Hawkesbury	2	16,900.00
	55	418,800.00

Municipality	No. of Projects	Loan Amount
PRINCE EDWARD		
Hallowell	5	36,400.00
	5	36,400.00
RAINY RIVER		
Chapple	3	19,800.00
Emo	1	6,400.00
	4	26,200.00
RENFREW		
Admaston	3	4,800.00
Bromley	6	23,200.00
Horton	1	11,500.00
McNab	2	10,600.00
Pembroke	1	9,000.00
Ross	2	7,700.00
	15	66,800.00
RUSSELL		
Cambridge	12	60,300.00
Clarence	13	103,200.00
Russell	20	178,500.00
	45	342,000.00
SIMCOE		
Essa	2	12,400.00
Flos	12	120,800.00
Innisfil	1	12,900.00
Medonte	1	3,400.00
Nottawasaga	4	27,800.00
Orillia	2	21,400.00
Oro	9	27,400.00
Sunnidale	6	79,500.00
Tecumseth	3	12,000.00
Tiny	1	8,800.00
Tosorontio	1	20,000.00
Vespra	4	33,500.00
West Gwillimbury	3	12,500.00
	49	392,400.00
STORMONT		
Finch	19	185,300.00
Osnabruck	6	29,900.00
Roxborough	17	105,700.00
	42	320,900.00
SUDBURY		
Ratter and Dunnet	1	8,900.00
The Spanish River	3	22,200.00
	4	31,100.00
THUNDER BAY		
Paipoonge	2	11,700.00
	2	11,700.00
TIMISKAMING		
Armstrong	8	97,700.00
Casey	3	28,100.00
Chamberlain	1	5,500.00
Dack	3	33,300.00
Evanturel	4	30,600.00
Hilliard	2	20,500.00
Hudson	1	7,800.00
Kerns	6	26,600.00
	28	250,100.00

TILE DRAINAGE DEBENTURES PURCHASED

Municipality	No. of Projects	Loan Amount
VICTORIA		
Emily	4	20,800.00
Mariposa	1	5,200.00
Ops	3	22,100.00
Verulam	3	15,600.00
	11	63,700.00
WATERLOO		
Wellesley	16	92,400.00
Wilmot	7	67,600.00
Woolwich	7	31,700.00
	30	191,700.00
WELLINGTON		
Arthur	12	109,200.00
Eramosa	2	24,900.00
Erin	1	5,200.00
Guelph	2	10,900.00
Maryborough	14	98,000.00
Minto	10	57,000.00
Nichol	4	28,700.00
Peel	12	92,500.00
Pilkington	2	19,000.00
West Garafraxa	8	58,100.00
West Luther	6	59,700.00
	73	563,200.00
YORK		
King	1	14,200.00
	1	14,200.00
ONTARIO		
TOTAL	2,008	14,711,500.00

APPENDIX VIII-2

YEAR END REPORT FOR TILE DRAINAGE ACT
NORTHERN ONTARIO TILE LOANS
(Unorganized Municipalities)
Fiscal Year April 1, 1985 – March 31, 1986

Name	Amount	District	Municipality
Harold and Margaret Arnold	3,900	Manitoulin	Campbell
Jean Noel Beaudry	6,800	Nipissing	MacPherson
Gerald & Lucienne Giroux	8,400	Nipissing	Kirkpatrick
Claude & Marguerite Lemieux	11,500	Nipissing	MacPherson
Isobel McFarlane	11,400	Timiskaming	Robillard
Ken McFarlane	10,900	Timiskaming	Robillard
Ronald Arthur Minnett	6,300	Timiskaming	Robillard
Philip Potter	6,900	Timiskaming	Beauchamp
Martin & Diane Smits	7,300	Nipissing	Kirkpatrick
Noel Venne	7,500	Nipissing	Kirkpatrick
Edwin, Dorothy & Kerry Walton	9,000	Timiskaming	Beauchamp
TOTAL	**$89,900**		

NORTHERN ONTARIO TILE LOANS SUMMARY
(Unorganized Municipalities)
Fiscal Year April 1, 1985 – March 31, 1986

District	No. of Loans	Amount of Loans
Manitoulin	1	$ 3,900
Nipissing	5	41,500
Timiskaming	5	44,500
TOTAL	**11**	**$89,900**

APPENDIX VIII-3

MINISTRY OF AGRICULTURE AND FOOD
GRANTS UNDER THE DRAINAGE ACT
Fiscal Year April 1, 1985 - March 31, 1986

Municipality	Drainage Works with Engineer's Report			Routine Maintenance & Superintendent's Fees		
	No. of Drains	Total Cost	Total Grant	No. of Projects	Total Cost	Total Spent
BRANT COUNTY						
Burford	5	241,822.90	27,038.50	0	0.00	0.00
	5	241,822.90	27,038.50	0	0.00	0.00
BRUCE COUNTY						
Amabel	1	28,206.98	6,725.60	1	9,458.00	3,043.32
Arran	1	32,034.06	10,044.33	0	0.00	0.00
Brant	1	51,744.21	11,041.45	0	0.00	0.00
Bruce	0	0.00	0.00	1	3,785.41	1,434.19
Culross	INT	65,034.04	19,477.73	0	0.00	0.00
Eastnor	1	16,460.00	5,486.66	0	0.00	0.00
Elderslie	0	0.00	0.00	SUP	1,179.10	589.55
Greenock	0	0.00	0.00	SUP	4,135.56	2,067.77
Huron	0	0.00	0.00	26	18,389.35	5,636.36
Kincardine	2	117,722.56	34,517.76	2	12,358.16	6,068.13
Kinloss	2	32,016.56	10,650.53	8	10,729.15	3,930.37
	8	343,218.41	97,944.06	38	60,034.73	22,769.69
COCHRANE DISTRICT						
Glackmeyer	1	20,229.75	12,962.75	0	0.00	0.00
Val-Rita Harty	1	21,988.73	9,088.45	0	0.00	0.00
	2	42,218.48	22,051.20	0	0.00	0.00
DUFFERIN COUNTY						
Amaranth	1	59,821.40	14,360.56	5	12,091.50	3,894.80
East Garafraxa	0	0.00	0.00	SUP	880.60	440.30
East Luther	0	0.00	0.00	1	2,483.58	995.67
Melancthon	0	0.00	0.00	1	1,924.20	802.27
	1	59,821.40	14,360.56	7	17,379.88	6,133.04
DUNDAS COUNTY						
Matilda	4	130,559.72	38,318.85	1	14,916.08	5,985.42
Mountain	0	0.00	0.00	2	15,422.09	6,069.52
Williamsburg	PREL	2,000.00	666.67	SUP	1,642.84	821.42
Winchester	0	0.00	0.00	8	30,330.01	10,137.33
	4	132,559.72	38,985.52	11	62,311.02	23,013.69
ELGIN COUNTY						
Aldborough	4	64,050.20	17,248.24	62	47,577.00	14,727.24
Bayham	1	36,875.42	1,743.94	31	11,900.65	3,659.76
Dunwich	11	205,860.34	52,032.25	24	28,604.87	10,189.52
Malahide	2	98,889.41	29,112.12	39	47,434.90	16,117.40
South Dorchester	4	133,080.59	34,466.86	22	18,432.35	6,150.46
Southwold	10	196,392.80	46,600.50	SUP	14,031.80	7,015.90
Springfield	1	39,650.28	3,306.41	0	0.00	0.00
Yarmouth	8	202,714.09	47,605.57	9	77,728.14	29,117.02
	41	977,513.13	232,115.89	187	245,709.71	86,977.30
ESSEX COUNTY						
Amherstburg	0	0.00	0.00	SUP	940.14	470.07
Anderdon	2	32,121.48	7,888.23	SUP	10,539.76	5,269.88
Colchester North	0	0.00	0.00	8	10,248.46	3,549.97
Colchester South	4	108,003.30	24,222.51	10	53,179.64	22,207.03
Gosfield North	3	31,002.00	8,979.60	4	25,806.61	8,390.11
Gosfield South	4	34,178.12	10,400.73	8	14,733.06	5,260.57
Maidstone	10	387,185.32	78,659.91	29	43,745.12	9,299.10
Malden	1	111,958.61	25,499.37	13	16,035.87	5,839.58
Mersea	3	946,103.55	310,276.22	6	43,970.00	18,156.26
Pelee	ADJ	747.80	212.26	0	0.00	0.00
Rochester	8	127,734.66	18,473.79	42	51,662.17	12,721.20
Sandwich South	3	67,063.63	14,935.00	3	19,939.55	8,913.33
Tilbury North	8	306,698.02	80,832.60	50	69,188.99	22,199.70
Tilbury West	3	80,938.18	22,597.35	32	32,234.46	9,993.88
	49	2,233,734.67	602,977.57	205	392,223.83	132,270.68

INT = Interim Grant, PREL = Preliminary Report, ADJ = Adjustment due to verification, SUP = Superintendent's Fees

GRANTS UNDER THE DRAINAGE ACT

Municipality	Drainage Works with Engineer's Report			Routine Maintenance & Superintendent's Fees		
	No. of Drains	Total Cost	Total Grant	No. of Projects	Total Cost	Total Spent
FRONTENAC COUNTY						
Olden	0	0.00	0.00	1	3,235.55	590.46
Pittsburgh	0	0.00	0.00	2	46,640.02	14,778.81
Portland	1	153,480.47	49,926.84	0	0.00	0.00
	1	153,480.47	49,926.84	3	49,875.57	15,369.27
GLENGARRY COUNTY						
Charlottenburgh	2	151,921.08	44,210.46	3	36,507.68	14,032.12
Kenyon	2	157,072.17	44,396.52	13	75,224.76	28,390.84
Lancaster	1	19,788.24	5,342.99	10	46,543.90	16,846.82
Lochiel	3	149,574.58	49,529.15	2	8,269.90	3,507.30
	8	478,356.07	143,479.12	28	166,546.24	62,777.08
GRENVILLE COUNTY						
Edwardsburgh	0	0.00	0.00	SUP	2,586.88	1,293.44
Oxford-on-Rideau	0	0.00	0.00	SUP	5,408.07	2,704.03
South Gower	0	0.00	0.00	SUP	759.00	379.50
Wolford	0	0.00	0.00	2	4,017.75	1,486.04
	0	0.00	0.00	2	12,771.70	5,863.01
GREY COUNTY						
Egremont	2	51,609.08	15,284.94	0	0.00	0.00
Proton	0	0.00	0.00	9	5,053.95	1,783.61
	2	51,609.08	15,284.94	9	5,053.95	1,783.61
HALDIMAND-NORFOLK REGION						
Delhi	1	14,385.60	4,364.95	26	40,046.09	15,898.22
Dunnville	4	118,373.47	22,190.19	17	138,286.86	55,407.23
Haldimand	1	119,189.64	2,654.63	0	0.00	0.00
Nanticoke	5	211,769.83	55,357.83	10	16,990.83	7,139.41
Norfolk	5	156,522.82	38,816.05	57	99,668.18	39,267.78
Simcoe	0	0.00	0.00	SUP	673.99	337.00
	16	620,241.36	123,383.65	110	295,665.95	118,049.64
HALTON REGION						
Halton Hills	1	6,128.19	382.85	0	0.00	0.00
	1	6,128.19	382.85	0	0.00	0.00
HURON COUNTY						
Ashfield	3	117,183.21	34,785.87	6	14,943.32	5,369.42
Colborne	2	146,529.86	38,911.28	3	4,245.65	1,852.40
East Wawanosh	1	10,432.99	3,430.70	3	3,822.80	1,130.27
Goderich	1	38,251.50	12,180.71	0	0.00	0.00
Grey	7	196,364.31	55,885.02	17	20,325.68	8,260.31
Hay	2	68,388.65	20,264.00	3	2,054.74	642.59
Howick	2	40,726.85	11,418.40	9	23,451.55	9,605.33
Hullett	6	170,723.04	41,690.95	0	20,399.24	7,200.33
McKillop	1	23,566.35	7,615.65	7	0.00	0.00
Morris	3	68,139.01	17,672.09	0	0.00	0.00
Stanley	2	20,230.71	6,283.96	4	4,252.35	1,722.96
Stephen	1	6,078.18	2,009.79	0	0.00	0.00
Tuckersmith	2	37,955.64	9,309.66	0	0.00	0.00
Turnberry	2	23,170.13	6,343.15	8	9,866.40	4,586.53
Usborne	1	119,544.16	3,675.28	1	2,930.08	1,113.71
West Wawanosh	2	12,247.49	4,005.64	2	2,659.40	1,099.45
	38	1,099,532.08	275,482.15	63	108,951.21	42,583.30
KENT COUNTY						
Camden	7	238,152.84	72,066.82	0	0.00	0.00
Chatham	18	149,235.25	38,008.03	131	213,927.89	61,707.16
Dover	16	944,760.02	205,390.93	38	301,831.51	95,037.48
Harwich	16	330,757.22	56,067.35	94	180,478.37	52,210.63
Howard	18	397,064.31	100,840.78	39	57,541.89	20,428.71
Orford	10	154,530.71	44,156.15	31	15,764.88	6,048.78
Raleigh	9	267,279.04	62,918.59	23	142,422.01	44,260.09
Romney	0	0.00	0.00	25	16,269.68	4,822.99
Tilbury East	2	27,289.50	8,011.30	0	0.00	0.00
Zone	3	79,742.35	21,403.98	0	0.00	0.00
	99	2,588,811.24	608,863.93	381	928,236.23	284,515.84

INT = Interim Grant, PREL = Preliminary Report, ADJ = Adjustment due to verification, SUP = Superintendent's Fees

GRANTS UNDER THE DRAINAGE ACT

Municipality	Drainage Works with Engineer's Report			Routine Maintenance & Superintendent's Fees		
	No. of Drains	Total Cost	Total Grant	No. of Projects	Total Cost	Total Spent
LAMBTON COUNTY						
Bosanquet	2	19,079.55	6,225.19	15	37,795.83	14,140.07
Brooke	3	60,185.64	13,538.75	37	50,601.71	16,435.74
Dawn	6	163,666.28	48,502.02	0	0.00	0.00
Enniskillen	8	134,498.92	35,511.87	22	61,785.23	21,231.18
Moore	3	51,649.50	16,064.70	30	66,252.24	22,285.00
Plympton	6	242,018.77	29,956.88	2	24,304.98	8,323.62
Sarnia	1	31,719.12	4,173.51	SUP	2,583.85	1,291.92
Sombra	6	127,573.78	33,354.75	18	37,446.46	11,741.55
Warwick	6	234,429.01	36,481.54	52	46,542.08	17,173.55
	41	1,064,820.57	223,809.21	176	327,312.38	112,622.63
LANARK COUNTY						
Bathurst	0	0.00	0.00	SUP	831.50	415.75
Drummond	0	0.00	0.00	SUP	895.67	447.83
Montague	2	170,910.29	47,991.47	1	5,796.64	2,165.42
Pakenham	0	0.00	0.00	1	4,741.11	1,622.93
Ramsay	0	0.00	0.00	2	3,913.40	1,531.01
	2	170,910.29	47,991.47	4	16,178.32	6,182.94
LEEDS COUNTY						
Bastard, South Burgess	0	0.00	0.00	SUP	308.10	154.05
	0	0.00	0.00	0	308.10	154.05
LENNOX & ADDINGTON COUNTY						
Amherst Island	INT	221,303.52	73,356.58	0	0.00	0.00
South Fredericksburgh	0	0.00	0.00	1	14,073.65	4,801.84
	0	221,303.52	73,356.58	1	14,073.65	4,801.84
MANITOULIN DISTRICT						
Assiginack	1	28663.08	18565.04	0	0.00	0.00
Gordon	0	0.00	0.00	1	232.82	116.41
	1	28,663.08	18,565.04	1	232.82	116.41
MIDDLESEX COUNTY						
Adelaide	19	354,411.84	88,138.27	24	30,616.60	12,554.40
Biddulph	3	63,709.71	16,191.24	3	3,338.96	1,395.93
Caradoc	4	86,558.82	23,242.22	12	26,070.23	8,693.56
Delaware	3	38,149.91	7,558.63	0	0.00	0.00
East Williams	4	117,879.32	34,653.15	11	8,106.22	2,114.15
Ekfrid	4	158,597.83	40,098.49	9	23,705.51	11,482.62
Lobo	1	25,356.04	7,768.40	19	31,969.30	14,071.56
London	8	399,850.32	117,005.79	17	33,712.82	10,557.64
Lucan	1	35,973.18	2,843.28	0	0.00	0.00
McGillivray	2	64,801.91	18,500.74	10	20,566.21	8,376.50
Metcalfe	1	17,847.21	5,389.24	15	8,131.94	2,532.61
Mosa	11	154,902.71	36,715.55	31	56,250.85	19,594.36
North Dorchester	2	37,319.67	8,106.55	11	39,229.42	13,924.33
West Nissouri	8	132,854.36	32,825.21	22	21,629.86	6,899.19
West Williams	1	49,162.64	14,947.70	0	0.00	0.00
Westminster	1	21,473.09	4,195.91	1	11,388.63	5,598.66
	73	1,758,848.56	458,180.37	185	314,716.55	117,795.51
NIAGARA REGION						
Pelham	0	0.00	0.00	2	5,098.19	1,118.21
Port Colborne	0	0.00	0.00	20	82,802.95	21,875.32
Wainfleet	3	42,631.03	8,468.32	4	45,383.19	19,441.11
West Lincoln	0	0.00	0.00	SUP	13,741.81	6,870.90
	3	42,631.03	8,468.32	26	147,026.14	49,305.54
NIPISSING DISTRICT						
Caldwell	8	100,011.74	59,982.36	0	0.00	0.00
Papineau	3	83,342.33	51,265.66	0	0.00	0.00
Springer	8	587,066.14	316,472.21	0	0.00	0.00
	19	770,420.21	427,720.23	0	0.00	0.00

INT = Interim Grant, PREL = Preliminary Report, ADJ = Adjustment due to verification, SUP = Superintendent's Fees

GRANTS UNDER THE DRAINAGE ACT

Municipality	Drainage Works with Engineer's Report			Routine Maintenance & Superintendent's Fees		
	No. of Drains	Total Cost	Total Grant	No. of Projects	Total Cost	Total Spent
OTTAWA-CARLETON REGION						
Cumberland	ADJ	722.94	240.08	7	50,724.70	20,377.95
Nepean	0	0.00	0.00	SUP	3,568.43	1,784.22
Osgoode	2	918,296.64	262,602.39	4	17,679.31	7,322.11
Rideau	0	0.00	0.00	1	2,172.99	830.49
	2	919,019.58	262,842.47	12	74,145.43	30,314.77
OXFORD COUNTY						
Blandford-Blenheim	7	260,006.95	46,377.15	60	38,431.20	14,455.54
East Zorra-Tavistock	4	390,780.98	112,435.27	28	27,748.86	11,152.93
Norwich	14	900,432.76	203,124.21	69	85,259.06	31,475.48
Southwest Oxford	6	435,935.76	125,454.70	91	46,948.97	16,942.18
Zorra	10	463,202.00	125,876.42	52	72,354.28	29,333.65
	41	2,450,358.45	613,267.75	300	270,742.37	103,359.78
PERTH COUNTY						
Blanshard	0	0.00	0.00	SUP	750.00	424.93
Downie	2	62,849.43	18,019.72	1	6,652.74	3,227.94
Ellice	1	41,025.41	13,465.85	2	13,225.78	4,629.61
Elma	4	184,301.21	56,319.09	10	17,934.06	7,239.37
Fullarton	0	0.00	0.00	8	17,818.21	4,818.76
Hibbert	1	28,913.58	8,412.90	0	0.00	0.00
Logan	3	88,866.47	26,973.92	1	3,828.00	1,290.56
Mornington	3	61,853.10	19,307.77	12	28,518.68	9,022.28
North Easthope	1	45,074.59	14,181.02	2	8,710.52	3,139.36
South Easthope	5	174,741.14	37,499.78	0	0.00	0.00
Wallace	1	31,313.68	9,139.27	1	4,335.04	1,704.36
	21	718,938.61	203,319.32	37	101,773.03	35,497.17
PRESCOTT COUNTY						
Alfred	0	0.00	0.00	2	12,812.95	4,884.59
Caledonia	1	181,728.98	55,481.59	9	41,334.27	16,818.94
East Hawkesbury	2	182,140.41	60,011.92	SUP	2,705.07	1,352.54
Longueuil	0	0.00	0.00	2	12,218.95	4,740.84
N. Plantagenet	0	0.00	0.00	1	10,277.13	4,924.32
S. Plantagenet	3	131,695.39	32,385.96	2	6,156.26	2,823.51
West Hawkesbury	0	0.00	0.00	1	4,037.50	1,177.42
	6	495,564.78	147,879.47	17	89,542.13	36,722.16
PRINCE EDWARD COUNTY						
Athol	0	0.00	0.00	SUP	100.00	50.00
	0	0.00	0.00	0	100.00	50.00
RAINY RIVER DISTRICT						
Atwood	1	103,457.95	60,899.57	0	0.00	0.00
Blue	1	117,164.66	66,752.60	0	0.00	0.00
Chapple	2	282,391.95	148,736.24	SUP	575.00	287.50
Dilke	2	129,559.06	82,265.01	0	0.00	0.00
Emo	2	103,450.76	63,348.08	2	744.30	375.72
La Vallee	0	0.00	0.00	2	10,097.50	3,148.43
McCrosson and Tovell	1	30,363.44	11,356.47	0	0.00	0.00
Morley	2	144,446.12	95,500.35	SUP	608.00	304.00
Worthington	1	144,707.25	86,299.97	0	0.00	0.00
	12	1,055,541.19	615,158.29	4	12,024.80	4,115.65
RENFREW COUNTY						
Admaston	0	0.00	0.00	1	4,843.33	613.49
Alice & Fraser	0	0.00	0.00	SUP	825.00	412.50
Bromley	0	0.00	0.00	10	19,935.15	6,976.99
Ross	0	0.00	0.00	SUP	670.44	335.22
	0	0.00	0.00	11	26,273.92	8,338.20
RUSSELL COUNTY						
Cambridge	1	14,250.00	4,750.00	SUP	5,155.15	2,577.58
Clarence	0	0.00	0.00	2	20,726.50	9,077.75
Russell	0	0.00	0.00	10	64,524.90	24,242.52
	1	14,250.00	4,750.00	12	90,406.55	35,897.85

INT = Interim Grant, PREL = Preliminary Report, ADJ = Adjustment due to verification, SUP = Superintendent's Fees

GRANTS UNDER THE DRAINAGE ACT

Municipality	Drainage Works with Engineer's Report			Routine Maintenance & Superintendent's Fees		
	No. of Drains	Total Cost	Total Grant	No. of Projects	Total Cost	Total Spent
SIMCOE COUNTY						
Adjala	0	0.00	0.00	SUP	3,190.39	1,595.20
Bradford	0	0.00	0.00	1	868.99	324.64
Essa	0	0.00	0.00	1	10,609.85	3,614.94
Flos	1	681.20	227.06	1	7,842.85	2,538.72
Innisfil	0	0.00	0.00	SUP	7,247.73	3,623.87
Mara	0	0.00	0.00	2	2,991.01	1,169.08
Orillia	0	0.00	0.00	1	9,894.74	3,402.28
Tecumseth	5	163,761.40	31,017.37	1	4,472.00	1,936.67
West Gwillimbury	0	0.00	0.00	1	25,796.29	8,615.05
	6	164,442.60	31,244.43	8	72,913.85	26,820.45
STORMONT COUNTY						
Finch	2	60,319.49	18,406.99	3	14,087.03	5,327.55
Osnabruck	1	70,160.64	11,414.00	4	82,223.38	32,209.54
Roxborough	2	43,345.93	14,271.73	5	33,284.03	15,429.13
	5	173,826.06	44,092.72	12	129,594.44	52,966.22
SUDBURY REGION						
Rayside-Balfour	2	192,026.21	109,473.78	0	0.00	0.00
Valley East	1	19,335.40	3,562.31	SUP	1,071.86	535.93
	3	211,361.61	113,036.09	0	1,071.86	535.93
SUDBURY DISTRICT						
Casimir, Jennings, Appleby	5	333,371.62	191,858.31	0	0.00	0.00
Hagar	1	28,543.75	17,668.79	0	0.00	0.00
Ratter and Dunnet	2	60,792.43	35,581.10	0	0.00	0.00
The Spanish River	1	6,979.12	2,641.69	8	9,053.68	5,429.06
	9	429,686.92	247,749.89	8	9,053.68	5,429.06
TIMISKAMING DISTRICT						
Armstrong	2	1,191,681.75	671,249.18	SUP	461.17	230.58
Casey	INT	47,813.00	26,212.67	0	0.00	0.00
Dack	2	57,150.40	33,213.90	0	0.00	0.00
Evanturel	1	129,467.47	58,636.53	1	18,111.20	6,839.72
Haileybury	3	73,943.10	38,157.04	0	0.00	0.00
Harley	5	159,899.08	83,333.43	0	0.00	0.00
Hilliard	1	74,578.41	36,689.30	SUP	451.50	225.75
Kerns	2	119,554.75	57,736.72	0	0.00	0.00
	16	1,854,087.96	1,005,228.77	1	19,023.87	7,296.05
VICTORIA COUNTY						
Mariposa	2	177,970.72	52,263.56	SUP	2,555.34	1,277.67
Ops	0	0.00	0.00	5	3,889.15	1,457.75
	2	177,970.72	52,263.56	5	6,444.49	2,735.42
WATERLOO REGION						
Wellesley	1	17,753.00	5,861.00	2	8,796.62	4,107.04
Wilmot	0	0.00	0.00	3	3,252.16	1,138.69
Woolwich	1	138,230.43	21,533.80	1	1,461.01	681.91
	2	155,983.43	27,394.80	6	13,509.79	5,927.64
WELLINGTON COUNTY						
Arthur	3	198,107.05	51,956.12	5	15,023.27	5,889.87
Guelph	INT	76,763.08	18,494.69	4	8,657.43	2,723.94
Maryborough	0	0.00	0.00	18	25,028.05	10,261.44
Minto	5	177,116.02	47,893.53	12	26,036.19	12,074.27
Nichol	0	0.00	0.00	SUP	558.32	279.16
Pilkington	0	0.00	0.00	2	1,112.38	458.68
West Garafraxa	0	0.00	0.00	SUP	790.98	395.49
West Luther	1	22,314.22	6,257.31	12	8,457.96	3,649.30
	9	474,300.37	124,601.65	53	85,664.58	35,732.15
YORK REGION						
King	0	0.00	0.00	1	38,473.45	13,019.93
	0	0.00	0.00	1	38,473.45	13,019.93
PROVINCIAL TOTAL	549	22,381,976.74	7,003,197.21	1,924	4,205,366.22	1,497,843.50

INT = Interim Grant, PREL = Preliminary Report, ADJ = Adjustment due to verification, SUP = Superintendent's Fees

APPENDIX VIII-4

GRANTS UNDER THE DRAINAGE ACT

Fiscal Year April 1, 1985 - March 31, 1986

Payments To Individuals For Drainage Works in Unorganized Territories

District	Contractor Personal Payee	Total Payment
Cochrane	Clement Groleau	1,333.90
Cochrane N.	Gilles Lehoux	33.26
Cochrane N.	L. Sylvain	1,485.69
Cochrane N.	Paul Pominville	1,765.48
Kenora	George Wall	1,274.80
Kenora	Robert Wall	741.95
Manitoulin	D. McDermid	66.25
Manitoulin	E. Lewis	255.36
Manitoulin	Harold Arnold	2,451.79
Manitoulin	Harvey Haner	36.84
Manitoulin	M. Robertson	143.66
Manitoulin	Marty Wilcox	21.00
Manitoulin	Trevor White	99.41
Manitoulin	Wilfred Joyce	187.22
Nipissing	A. Belec	174.18
Nipissing	Denis Giguere	569.01
Nipissing	Florian Vincent	1,053.57
Nipissing	Marcel Plante	433.50
Nipissing	Maurice Courchesne	654.26
Nipissing	N. Lebeau	206.62
Nipissing	R. Beauparlant	271.44
Nipissing	Robert Rousseau	442.60
Rainy River	Gerald Gouliquer	1,527.53
Rainy River	K.W. White	691.80
Rainy River	Robert LeBlanc	944.81
Timiskaming	Bernard Hughes	2,554.03
Timiskaming	Bert Bannink	1,030.00
Timiskaming	Clair Simpkin	760.00
		21,209.96

Contractors for Drains in Unorganized Territories

Cochrane N.	Claude Villeneuve Co. Ltd.	2,040.25
Cochrane N.	Les Enterprises Chega	500.00
Kenora	Robert Wall	2,213.87
Manitoulin	H.R. Noble Construction	196.00
Manitoulin	Manitoulin Tiling	7,473.00
Manitoulin	Perttula Excavating	24,000.00
Manitoulin	Tait Bros.	4,200.00
Nipissing	Ron Joduin Excav.	7,680.00
Nipissing	RPM Enterprise	34,450.00
Rainy River	Armor Construction	14,262.40
Rainy River	Atwood Township	53,396.95
Timiskaming	Blain Farm Drainage	26,231.00
Timiskaming	Rod Inglis	97,371.55
		274,015.02
Subtotal		295,224.98
Less: Transfers From Holding Account		50,633.98
TOTAL PAYMENT		244,591.00

APPENDIX IX

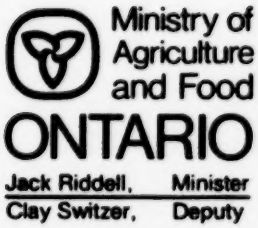
SUMMARY OF EXPENDITURE
For the Year Ended March 31, 1986

	($Thousand)	($Thousand)
MINISTRY ADMINISTRATION PROGRAM		
Main Office	1,881	
Financial and Support Services	5,121	
Personnel Services	794	
Information Services	3,144	
Analysis & Planning	2,318	
Legal Services	411	
Audit Services	426	
Systems Development Services	2,225	
Total for Ministry Administration		16,320
AGRICULTURAL MARKETING AND STANDARDS PROGRAM		
Marketing and Sector Support Payments	10,268	
Foodland Ontario Promotion	2,277	
Quality Standards	16,093	
Total for Agricultural Marketing and Standards		28,638
AGRICULTURAL TECHNOLOGY, DEVELOPMENT & FIELD SERVICES PROGRAM		
Education, Research and Technical Services		
Contracted with University of Guelph, incl. Administration	24,760	
Veterinary Clinical Training	1,800	
Ontario Dairy Herd Improvement	2,600	
Colleges of Agricultural Technology, Education and Research	16,824	
Other Education and Research	10,932	
Support to Rural and Farm Organizations	5,674	
Farmland Improvement	35,961	
Red Meat Industry Development	9,617	
Advisory Services	27,362	
International Development Projects	957	
Total for Agriculture Technology, Development & Field Services		136,487
FINANCIAL ASSISTANCE TO AGRICULTURE PROGRAM		
Foodland Preservation Policy	1,277	
Financial Assistance Policy	6,069	
Direct Support and Stabilization Payments:		
Farm Tax Reduction	101,000	
Family Farm Interest Rate Reduction	34,163	
Farm Income Stabilization	29,972	
Subsidy Payments to The Ontario Crop Insurance Fund	20,954	
Farm Adjustment Assistance	14,426	
Beginning Farmers' Assistance	8,556	
Various Grants (Transfer Payments)	2,951	
Payments re Guaranteed Bank Loans (Statutory)	747	
Storm Damage Assistance	478	
Transition Assistance	49	
Total for Financial Assistance to Agriculture		220,642
TOTAL EXPENDITURE		402,087

APPENDIX X

SUMMARY OF REVENUE
For the Year Ended March 31, 1986

	($Thousand)	($Thousand)
MINISTRY ADMINISTRATION PROGRAM		
Reimbursement of Expenditures (Other)	499	
Sales and Rentals	3	
Recovery of Prior Years' Expenditures	107	
Royalties	1	
Miscellaneous	116	
RECEIPTS:		
Cooperative Loans	38	
Total of Ministry Administration		764
AGRICULTURAL MARKETING AND STANDARDS PROGRAM		
Reimbursement of Expenditures	674	
Fees, Licences and Permits	756	
Sales and Rentals	127	
Recovery of Prior Years' Expenditures	25	
Miscellaneous	1	
RECEIPTS:		
Tender Fruit Marketing Board	90	
Total for Agricultural Marketing and Standards		1,673
AGRICULTURAL TECHNOLOGY, DEVELOPMENT & FIELD SERVICES PROGRAM		
Reimbursement of Expenditures		
Government of Canada	1,358	
Reimbursement of Expenditures	737	
Fees, Licences and Permits	1,295	
Sales and Rental	3,438	
Recovery of Prior Years' Expenditures	98	
Miscellaneous	20	
RECEIPTS:		
Municipalities re Tile Drainage	22,248	
The Drainage Loans in Unorganized Territories	105	
CREDITS:		
Ontario Agricultural Museum Trust Fund	5	
Bequest and Scholarship	6	
Total for Agricultural Technology, Development & Field Services		29,310
FINANCIAL ASSISTANCE TO AGRICULTURE PROGRAM		
Reimbursement of Expenditures		
Government of Canada	14,672	
Sales of Rentals	2	
Recovery of Prior Years' Expenditures	322	
Miscellaneous	3	
RECEIPTS:		
Ontario Crop Insurance Commission	12,783	
Total for Financial Assistance to Agriculture		27,782
TOTAL REVENUE		59,529


Ministry of
Agriculture
and Food
ONTARIO
Jack Riddell, Minister
Clay Switzer, Deputy